

BOOSECT	ZIP_NAME,C	PART_NUM	MFR_NAME
TR	50		
TR	50		
TR	50	Part Numbe	Manufacture
TR	50		
TR	50	2SK436	Sanyo Elect
TR	50	MMBF5486	Natl Semi
TR	50	U425	Siliconix
TR	50	2N5592	Unitex
TR	43		
TR	43		
TR	43	Part Numbe	Manufacture
TR	43		
TR	43	2N233	New Jersey
TR	43	2G339A	Genrl Diode
TR	43	2SD65	Solid StInc
TR	43	AC181	Germanium
TR	45		
TR	45		
TR	45	Part Numbe	Manufacture
TR	45		
TR	45	2N3321	CrimsonSen
TR	45	ACY36	Germanium
TR	45	MA889	Semicon Te
TR	45	NKT243	NthAmerSer
TR	104		
TR	104		
TR	104	Part Numbe	Manufacture
TR	104		
TR	104	40233	Gnrl Trans
TR	104	2N3462	Hybrid Semi
TR	104	2SD875	Matsushita
TR	104	MMBC1654	SprgueElec
TR	105		
TR	105		
TR	105	Part Numbe	Manufacture
TR	105		
TR	105	MPS404	Swampscott
TR	105	BCX78-8	Motorola
TR	105	NB123EI	Natl Semi
TR	105	TMPT5401	SprgueElec
TR	26		
TR	26		
TR	26	Part Numbe	Manufacture
TR	26		
TR	26	D40C1	Advncd Ser
TR	26	BSS50	NthAmerSer
TR	26	SDN305	SiliconTran
TR	26	TIP664	Semelab

TR	67		
TR	67		
TR	67	Part Number	Manufacture
TR	67		
TR	67	MD918A	Semicoa
TR	67	MP310	MicroPwrSy:
TR	67	MAT01AH	Precsn Moni
TR	67	IT120	GE/Intersil
TR	66		
TR	66		
TR	66	Part Number	Manufacture
TR	66		
TR	66	2N7106	Topaz Semi
TR	66	TN0604N3	Supertex
TR	66	2N6781	Siliconix
TR	66	IRFF133	GE Solid St
TR	44		
TR	44		
TR	44	Part Number	Manufacture
TR	44		
TR	44	2SD170	Elec Trans
TR	44	2N144	Motorola
TR	44	2SD352	Solid StInc
TR	44	2N4105	See Index
SM	18		
SM	18		
SM	18	Part Number	Manufacture
SM	18		
SM	18	DM76S64J	Natl Semi
SM	18	DM86S128J	Natl Semi
SM	18	MCM66710	Motorola
SM	18	CRT7004A	Std Micro
SM	20		
SM	20		
SM	20	Part Number	Manufacture
SM	20		
SM	20	K155PR6	
SM	20	K155PR7	V/O Electro
SM	20	DM74184N	Natl Semi
SM	20	SN74S484A	Texas Instr
SM	89		
SM	89		
SM	89	Part Number	Manufacture
SM	89		
SM	89	GAL16V8-2	Lattice
SM	89	EPL10P8B	Ricoh Corp
SM	89	PLS161	PhilipsElec
SM	89	TICHAL16L	Texas Instr
SM	90		

SM	90		
SM	90	Part Number	Manufacture
SM	90		
SM	90	VT64H1-35	VLSI Tech
SM	90	HY51C64LS	Hyundai
SM	90	CY7C197-3	Cypress Sem
SM	90	IMS1800P4	Inmos Corp
LN	69		
LN	69		
LN	69	Part Number	Manufacture
LN	69		
LN	69	BA8510F	Rohm Co Ltd
LN	69	EL2017CJ	Elantec
LN	69	TCA955K	Siemens Akt
LN	69	LA5536	Sanyo Elect
LN	86		
LN	86		
LN	86	Part Number	Manufacture
LN	86		
LN	86	M51361P	MitsubishiElec
LN	86	MSM5810R	OKI Electrc
LN	86	S8940D	Gould Semi
LN	86	SE564I	PhilipsElec
LN	101		
LN	101		
LN	101	Part Number	Manufacture
LN	101		
LN	101	FPM10PG	Fujikura
LN	101	KP100A	PhilipsElec
LN	101	PSS1800-0	Foxboro ICT
LN	101	SX100AN	Semsym
LN	114		
LN	114		
LN	114	Part Number	Manufacture
LN	114		
LN	114	BA6562F	Rohm Co Ltd
LN	114	MX204J	MX-Com Inc
LN	114	PEB2090	Siemens Akt
LN	114	TP5700AN	Natl Semi
LN	113		
LN	113		
LN	113	Part Number	Manufacture
LN	113		
LN	113	TDA2522	Plessy Semi
LN	113	CA3194E	GE Solid St
LN	113	GL3130	Goldstar
LN	113	MBA530	Telsa Elec
MP	68		
MP	68		

MP	68	Part Number	Manufacture
MP	68		
MP	68	S16	FujitsuMicr
MP	68	R2000/16	LSI Logic
MP	68	IDT79R300	(Intgrtd Dvc
MP	68	CY7C601-3	CypressSerr
MP	47		
MP	47		
MP	47	Part Number	Manufacture
MP	47		
MP	47	R68C552PE	Rockwell
MP	47	SL4000CN	Semi-Custor
MP	47	NSC810AVI	Natl Semi
MP	47	Z8470AF6	SGS-Ates
IF	30		
IF	30		
IF	30	Part Number	Manufacture
IF	30		
IF	30	SN74AS151	Texas Instr
IF	30	MC10164PI	Motorola
IF	30	LR74HC356	Sharp Corp
IF	30	SL54152D	Lansdale
IF	60	Part Number	Manufacture
IF	60		
IF	60	SCL4010BE	SprgueSldS
IF	60	HD100125F	Hitachi Ltd
IF	60	LTC1045CJ	Linear Tech
IF	60	MC10804L	Motorola
IF	19		
IF	19		
IF	19	Part Number	Manufacture
IF	19		
IF	19	WD2143-03	Western Dig
IF	19	CA82C84A	Calmos
IF	19	HMD11188-	Harris Micr
IF	19	D5244	Intel Corp
IF	99		
IF	99		
IF	99	Part Number	Manufacture
IF	99		
IF	99	N74LS13N	Signetics
IF	99	CD54HCT1	GE Solid St
IF	99	HEF4093BC	PhilipsElec
IF	99	MC14093B	Motorola
IF	100		
IF	100		
IF	100	Part Number	Manufacture
IF	100		
IF	100	SN55234J	Texas Instr

IF	100	ZN1030E	FerrantiLtd
IF	100	P3208A	Intel Corp
IF	100	MC1444L	Motorola
IF	107		
IF	107		
IF	107	Part Numbe	Manufacture
IF	107		
IF	107	2S56/410	Analog Dvc
IF	107	VM117R6D-VTC	Inc
IF	107	MH89635A5	Mitel Semi
IF	107	WD1100-14	Western Dig
LC	4		
LC	4		
LC	4	Part Numbe	Manufacture
LC	4		
LC	4	10G100-2C	Gigabit Lgc
LC	4	SN74F283N	Texas Instr
LC	4	HEF4008P	PhilipsElec
LC	4	MM54C83D	Natl Semi
LC	23		
LC	23		
LC	23	Part Numbe	Manufacture
LC	23		
LC	23	DN74LS92	Matsushita
LC	23	TQ1111-30F	Triquint
LC	23	M54HC4024	SGS-Ates
LC	23	SN54ALS81	Texas Instr
LC	38		
LC	38		
LC	38	Part Numbe	Manufacture
LC	38		
LC	38	MC14568B	Motorola
LC	38	RDD104	LSI Computi
LC	38	SP8786M	PlessySemi
LC	38	HMD11011-	Harris Micr
LC	42		
LC	42		
LC	42	Part Numbe	Manufacture
LC	42		
LC	42	MC10H107J	MonolthcMe
LC	42	SN54AS86F	Texas Instr
LC	42	SN54LS136	Motorola
LC	42	HD100107	Hitachi Ltd
LC	59		
LC	59		
LC	59	Part Numbe	Manufacture
LC	59		
LC	59	IDT74FCT3	Intgrtd Dvc
LC	59	P54PCT533	PerformSerr

LC	59	V54ACT574VTC Inc
LC	59	AM29845SCAdvncdMicr
LC	62	
LC	62	
LC	62	Part NumbeManufacture
LC	62	
LC	62	10G101-2L Gigabit Lgc
LC	62	MC10H179MMonolthcMe
LC	62	HCC40182ESGS-Ates
LC	62	MC14582BCM Motorola
LC	70	
LC	70	
LC	70	Part NumbeManufacture
LC	70	
LC	70	L64132B LSI Logic
LC	70	WTL2264-5 Weitek Corp
LC	70	ADSP3201JAnalog Dvc
LC	70	IDT72064 Intgrtd Dvc
LC	106	
LC	106	
LC	106	Part NumbeManufacture
LC	106	
LC	106	257AU AT&T Tech
LC	106	MA7170AGIMarconiElec
LC	106	AM29C60AAdvncdMicr
LC	106	HMD11502-Harris Micr
IF	1	
IF	1	
IF	1	Part NumbeManufacture
IF	1	
IF	1	UPD7001C NECElecsIn
IF	1	ADC-MC8B(GE-Datel
IF	1	ADC0831BCNatl Semi
IF	1	ADC0831BCNatl Semi
IF	10	
IF	10	
IF	10	Part NumbeManufacture
IF	10	
IF	10	TL188IN Texas Instr
IF	10	TL191N Texas Instr
IF	10	AH0014D Natl Semi
IF	10	IH5011CDE GE/Intersil
IF	8	
IF	8	
IF	8	Part NumbeManufacture
IF	8	
IF	8	HCC4053B(SGS-Ates
IF	8	HCF4053BESGS-Ates
IF	8	BU4551B Rohm Co Lt

IF	8	BU4551BF	Rohm Co Lt
LC	2		
LC	2		
LC	2	Part Numbe	Manufacture
LC	2		
LC	2	74ACT705Q	FairchildSC
LC	2	CY7C901-2	CypressSer
LC	2	AM29C332C	AdvncdMicr
LC	2	ADSP3220K	Analog Dvc
LC	21		
LC	21		
LC	21	Part Numbe	Manufacture
LC	21		
LC	21	74ACT1152	Texas Instr
LC	21	MC54F521N	Motorola
LC	21	SN74ALS29	Texas Instr
LC	21	SN74ALS52	Texas Instr
LC	22		
LC	22		
LC	22	Part Numbe	Manufacture
LC	22		
LC	22	LM8560	Sanyo Elect
LC	22	M58436-001	MitsubiElec
LC	22	UM3128	United Micr
LC	22	SVM7955	S-Mos Sys
LC	27		
LC	27		
LC	27	Part Numbe	Manufacture
LC	27		
LC	27	M74HC42B	SGS-Ates
LC	27	BA74LS42	Rohm Co Lt
LC	27	TC74HC402	ToshibaAme
LC	27	883C4028B	SprgueSldS
LC	28		
LC	28		
LC	28	Part Numbe	Manufacture
LC	28		
LC	28	DDU18-4	Data Delay
LC	28	EP9677-4	PCA Elecs
LC	28	65Z14A025	SprgueElec
LC	28	61Z14B050	SprgueElec
LC	37		
LC	37		
LC	37	Part Numbe	Manufacture
LC	37		
LC	37	SN74LS374	Motorola
LC	37	IDT54HCT2	Intgrtd Dvc
LC	37	V54ACT575V	VTC Inc
LC	37	S8TS806F	PhilipsElec

LC	84		
LC	84		
LC	84	Part Number	Manufacture
LC	84		
LC	84	10170F	PhilipsElec
LC	84	GD54S280J	Goldstar
LC	84	HCC40101ESGS-	Ates
LC	84	10G045-2C	Gigabit Lgc
LN	11		
LN	11		
LN	11	Part Number	Manufacture
LN	11		
LN	11	LM1877N2	Natl Semi
LN	11	UPC1263Cz	NiponElecJ/
LN	11	TDA1510A	PhilipsElec
LN	11	SI1135HD	Sanken Elec
LN	7		
LN	7		
LN	7	Part Number	Manufacture
LN	7		
LN	7	AD202JB	Analog Dvc
LN	7	INA101AG	Burr-Brown
LN	7	MN2200H	Micro Netwk
LN	7	AMP05EX	Precsn Moni
LN	76		
LN	76		
LN	76	Part Number	Manufacture
LN	76		
LN	76	OPA404BG	Burr-Brown
LN	76	UPC4064Gz	NiponElecJ/
LN	76	NJM064D	New Japan
LN	76	LT1058AMJ	Linear Tech
LN	6		
LN	6		
LN	6	Part Number	Manufacture
LN	6		
LN	6	AD9521TH	Analog Dvc
LN	6	CGY21B	Siemens Ak
LN	6	RAH38	AlphaIndust
LN	6	ADA25003	Anadigics
LN	9		
LN	9		
LN	9	Part Number	Manufacture
LN	9		
LN	9	4203S	Burr-Brown
LN	9	MPY534KD	Burr-Brown
LN	9	SG1402T	Silicon Grl
LN	9	AD539KN	Analog Dvc
LN	9		

LN	9		
LN	9	Part Number	Manufacture
LN	9		
LN	9	4203S	Burr-Brown
LN	9	MPY534KD	Burr-Brown
LN	9	SG1402T	Silicon Grl
LN	9	AD539KN	Analog Dvc
LN	97		
LN	97		
LN	97	Part Number	Manufacture
LN	97		
LN	97	GL494	Goldstar
LN	97	CS2525AJ	Cherry Semi
LN	97	HA17524P	Hitachi Ltd
LN	97	UC3825N	Unitrode
LN	106		
LN	106		
LN	106	Part Number	Manufacture
LN	106		
LN	106	LM134H	Natl Semi
LN	106	LM334Z	Linear Tech
LN	106	TL014CLP	Texas Instr
LN	106	XTR110AG	Burr-Brown
LN	115		
LN	115		
LN	115	Part Number	Manufacture
LN	115		
LN	115	HA17555FP	Hitachi Ltd
LN	115	LMC555CM	Natl Semi
LN	115	M5E555P	MitsubiElec
LN	115	ULN2430M	SprgueElec
LN	116		
LN	116		
LN	116	Part Number	Manufacture
LN	116		
LN	116	MD7002A	Motorola
LN	116	MPQ2369	Motorola
LN	116	MAT04EY	Precsn Mon
LN	116	ULN2046L	SprgueElec
LN	119		
LN	119		
LN	119	Part Number	Manufacture
LN	119		
LN	119	TLC374CD	Texas Instr
LN	119	CMP04BY	Precsn Mon
LN	119	HA1-4902-2	Harris Semi
LN	119	UC161BN	Unitrode
LN	120		
LN	120		

LN	120	Part Number	Manufacture
LN	120		
LN	120	LT1004CS8	Linear Tech
LN	120	SG1503T	Silicon Grl
LN	120	REF02AJ	Maxim Integ
LN	120	VRE100C	Thaler Corp
LN	36		
LN	36		
LN	36	Part Number	Manufacture
LN	36		
LN	36	UA78L02CCT	Texas Instr
LN	36	M5278L05	MitsubiElec
LN	36	TA78L008P	Indust Mexi
LN	36	LAS15A10	Lambda Ser
LN	5		
LN	5		
LN	5	Part Number	Manufacture
LN	5		
LN	5	TL1723	Comset Sen
LN	5	LM217K	SGS-Ates
LN	5	CA723E	Bharat
LN	5	LAS1000	Lambda Ser
IF	13		
IF	13		
IF	13	Part Number	Manufacture
IF	13		
IF	13	ZX54HCTLS	Radiation
IF	13	P54PCT240	PerformSerr
IF	13	AM29828A/I	AdvncdMicro
IF	13	SN74BCT2	Texas Instr
IF	61		
IF	61		
IF	61	Part Number	Manufacture
IF	61		
IF	61	IDT74FCT2	Intgrtd Dvc
IF	61	DM74S940J	Natl Semi
IF	61	GD74S241	Goldstar
IF	61	HD74ACT2	Hitachi Ltd
IF	14		
IF	14		
IF	14	Part Number	Manufacture
IF	14		
IF	14	MC10616L	Motorola
IF	14	10G002-2C	Gigabit Lgc
IF	14	AM26LS32A	Texas Instr
IF	14	HD100114	Hitachi Ltd
IF	15		
IF	15		
IF	15	Part Number	Manufacture

IF	15		
IF	15	P74PCT643	PerformSerr
IF	15	IDT74FCT6	Intgrtd Dvc
IF	15	74ACT1124	Texas Instr
IF	15	HD74HC24	Hitachi Ltd
IF	29		
IF	29		
IF	29	Part Numbe	Manufacture
IF	29		
IF	29	SN74AS138	Texas Instr
IF	29	74HCT137	CD Supertex
IF	29	HD1-6440-8	Harris Semi
IF	29	H1853CD	HughesSldS
IF	24		
IF	24		
IF	24	Part Numbe	Manufacture
IF	24		
IF	24	HMD1210	SI Analog Dvc
IF	24	MN565AK	Micro Netwk
IF	24	HDAC5060	CHnywell Sig
IF	24	ICL7134	UJCGE/Intersil
IF	31		
IF	31		
IF	31	Part Numbe	Manufacture
IF	31		
IF	31	M54940P	Mitsubishi
IF	31	N7446AF	PhilipsElec
IF	31	LC7250	Sanyo Elec
IF	31	DD700	Babcock
IF	87		
IF	87		
IF	87	Part Numbe	Manufacture
IF	87		
IF	87	LB1245	Sanyo Elect
IF	87	DP8310N	Natl Semi
IF	87	UCN5821A	SprgueElec
IF	87	ULN2801A	R S Cmpts
DI	3		
DI	3		
DI	3	Part Numbe	Manufacture
DI	3		
DI	3	DAN803	Rohm Co Lt
DI	3	1N5768	Space Powe
DI	3	TND940	SprgueElec
DI	3	FSA2565P	FairchildSC
DI	12		
DI	12		
DI	12	Part Numbe	Manufacture
DI	12		

DI	12	VSB52	Varo Quality
DI	12	SDA138D	Sld St Dvcs
DI	12	PM7A4R	MarconiElec
DI	12	VGB0501M	BrownBover
DI	17		
DI	17		
DI	17	Part Numbe	Manufacture
DI	17		
DI	17	CDLL5290	Compensate
DI	17	1N5294	Mitel Semi
DI	17	CR150	Siliconix
DI	17	CIL254	TeledynCrys
DI	40		
DI	40		
DI	40	Part Numbe	Manufacture
DI	40		
DI	40	GD2E	Siemens Ak
DI	40	1N771B	SemiconTec
DI	40	RL252	Rectron Ltd
DI	40	GU1A100	Germanium
DI	46		
DI	46		
DI	46	Part Numbe	Manufacture
DI	46		
DI	46	BAY68	Telefunken
DI	46	1N4936	Fagor
DI	46	SKN60F12	Semikron
DI	46	ARF2012S2	Ansaldo SP/
DI	48		
DI	48		
DI	48	Part Numbe	Manufacture
DI	48		
DI	48	PGG200-01	Parametric
DI	48	MA4986	M/ACommS
DI	48	BXY51	PhilipsElec
DI	48	1ST13	NEC Corp J.
DI	91		
DI	91		
DI	91	Part Numbe	Manufacture
DI	91		
DI	91	KS447A	V/O Electro
DI	91	FMMZ5248	PlessySemi
DI	91	Z2B56	SemitronLtd
DI	91	1EZ180D	Microsemi
DI	92		
DI	92		
DI	92	Part Numbe	Manufacture
DI	92		
DI	92	50T6.8	St Semicon

DI	92	1N2807	AmerMicroS
DI	92	DSZ4875	TRW RF Dv
DI	92	1S6100	TexasInstrW
DI	94		
DI	94		
DI	94	Part Numbe	Manufacture
DI	94		
DI	94	SD101A	ITTSemIntr
DI	94	SK102	Diotec Elec
DI	94	21DQ05	Nihon Inter
DI	94	SR15F	Diodes Inc
DI	102		
DI	102		
DI	102	Part Numbe	Manufacture
DI	102		
DI	102	P3E5	Edal Indus
DI	102	DFB05B	Sanyo Elect
DI	102	GU1A	Lucas Semi
DI	102	DD1058	ThmsnCSFE
DI	103		
DI	103		
DI	103	Part Numbe	Manufacture
DI	103		
DI	103	SRS1100	Sensitron
DI	103	C67D020H5	Condition
DI	103	CFR10	Codi Corp
DI	103	BCD50	Elec Device:
DI	109		
DI	109		
DI	109	Part Numbe	Manufacture
DI	109		
DI	109	SMBG5.0	GeneralSerr
DI	109	1N5640	Siemens Ak
DI	109	1N6293	CentralSemi
DI	109	1N5661A	Semitronics
DI	111		
DI	111		
DI	111	Part Numbe	Manufacture
DI	111		
DI	111	DVE5033-0	AlphaIndust
DI	111	VVC773	Knox Semi
DI	111	VA171	VarianAscO
DI	111	2402	MSI Elec
DI	112		
DI	112		
DI	112	Part Numbe	Manufacture
DI	112		
DI	112	1N2927	Diode Trans
DI	112	MS1205A	Raytheon C

DI	112	1N3562	CrimsonSen
DI	112	TD263	GE Solid St
DI	64		
DI	64		
DI	64	Part Numbe	Manufacture
DI	64		
DI	64	MA7707N0CM/A	CommsS
DI	64	1N1610	Hi-Tron
DI	64	5082-2755	Hewlett Pkd
DI	64	PKD102-01	Parametric
DI	117		
DI	117		
DI	117	Part Numbe	Manufacture
DI	117		
DI	117	A2S400	TRW Microv
DI	117	DC1511F	Marconi Ele
DI	117	M541A	AlphaIndust
DI	117	1N2792	Space Powe
DI	65		
DI	65		
DI	65	Part Numbe	Manufacture
DI	65		
DI	65	BOD1-13R	BrownBover
DI	65	DL201	Thmsn CSF
DI	65	SR2	Origin Elec
DI	65	704-34B	GeneralSerr
TY	32		
TY	32		
TY	32	Part Numbe	Manufacture
TY	32		
TY	32	DT36N200KA	EG Aktien
TY	32	TM20DA-M	MitsubiElec
TY	32	P162	Intl Rectfr
TY	32	EU403ET	Gentron
TY	95		
TY	95		
TY	95	Part Numbe	Manufacture
TY	95		
TY	95	050BBGOF	Microsemi C
TY	95	C108Y3	Digitron
TY	95	NL570A	Advncd Serr
TY	95	C149C10	GE Solid St
TY	93		
TY	93		
TY	93	Part Numbe	Manufacture
TY	93		
TY	93	JTA1205-1	ThetaJ Corp
TY	93	SF541100	Celduc
TY	93	380D45	Opto 22

TY	93	D4890CA	Crydom
TY	110		
TY	110		
TY	110	Part Numbe	Manufacture
TY	110		
TY	110	IT08HA	Hutson Ind
TY	110	T2322A	Motorola
TY	110	T2800M	Advncd Serr
TY	110	BTW34-160	PhilipsElec
TY	96		
TY	96		
TY	96	Part Numbe	Manufacture
TY	96		
TY	96	4E20-28	AmericanPw
TY	96	1N3840	Semitronics
TY	96	1N3838	Mcrww Diode
TY	96	T40R10220	Powerex Inc
TY	118		
TY	118		
TY	118	Part Numbe	Manufacture
TY	118		
TY	118	2N3679	Semitronics
TY	118	MU4893	GE Solid St
TY	118	2N3481	Space Powe
TY	118	2N489B	Elm State
TY	82		
TY	82		
TY	82	Part Numbe	Manufacture
TY	82		
TY	82	U72	NECElectsIn
TY	82	N13T1	NEC Corp J.
TY	82	U13T1	Unitrode
TY	82	2N6120	Space Powe
TY	41		
TY	41		
TY	41	Part Numbe	Manufacture
TY	41		
TY	41	GFF90A6	Hitachi Ltd
TY	41	BTV70-100	AmperexEle
TY	41	DGT305SE1	MarconiElec
TY	41	FG600AV90	Powerex Inc
OE	54		
OE	54		
OE	54	Part Numbe	Manufacture
OE	54		
OE	54	5082-7441	Hewlet Pkd
OE	54	LTC2602P	Lite-On
OE	54	LAA5711	Oak Switch
OE	54	TLR2327	ToshibaAme

OE	52		
OE	52		
OE	52	Part Number	Manufacture
OE	52		
OE	52	350E3R99GLXD	Inc
OE	52	FRD0180	Optrex Corp
OE	52	107F07AD	EnglishElec
OE	52	5301A6	Crystaloid
OE	25		
OE	25		
OE	25	Part Number	Manufacture
OE	25		
OE	25	MDL81809LV	Varitronix
OE	25	PM2C16D	Densitron
OE	25	M24111	Seiko
OE	25	HDSP2440	Hewlett Pkd
OE	57		
OE	57		
OE	57	Part Number	Manufacture
OE	57		
OE	57	TLFG1110	Telefunken
OE	57	L835/2HDT	Kingbright
OE	57	YLB2720	Siemens Ak
OE	57	BNRAR911(L	Ledco Div
OE	49		
OE	49		
OE	49	Part Number	Manufacture
OE	49		
OE	49	SE3362X02	HoneywellInc
OE	49	OP123	Optek Tech
OE	49	AL1KL5	Kodenshi
OE	49	LDT350	Laser Diode
OE	51		
OE	51		
OE	51	Part Number	Manufacture
OE	51		
OE	51	LCW10F	Laser Diode
OE	51	SDL1400C	Spectra
OE	51	SG2012	GE Solid St
OE	51	LD410	Laser Diode
OE	55		
OE	55		
OE	55	Part Number	Manufacture
OE	55		
OE	55	LDB5410	SiemensOpt
OE	55	L1062GD	Kingbright
OE	55	L120CWA5(L	Ledtronics
OE	55	TLHR4100	Telefunken
OE	56		

OE	56		
OE	56	Part Number	Manufacture
OE	56		
OE	56	531GD	Everlight
OE	56	TLAO5400	Telefunken
OE	56	L171ID	Kingbright
OE	56	CQX12	Comset Sen
OE	16		
OE	16		
OE	16	Part Number	Manufacture
OE	16		
OE	16	TC102	Texas Instr
OE	16	OPA1728	OKI Electrc
OE	16	UPD791D	NEC Corp J.
OE	16	TCD116DC	ToshibaAme
OE	39		
OE	39		
OE	39	Part Number	Manufacture
OE	39		
OE	39	OS592S060HEI	Inc
OE	39	CLI500	Clairex
OE	39	TLP802	ToshibaAme
OE	39	KLT102L55	Optek Tech
OE	53		
OE	53		
OE	53	Part Number	Manufacture
OE	53		
OE	53	CK1271	Raytheon Co
OE	53	NSL3510	Silonex
OE	53	CL707L	Clairex
OE	53	VT235	E G G Vactc
OE	81		
OE	81		
OE	81	Part Number	Manufacture
OE	81		
OE	81	SFH217F	Siemens Ak
OE	81	MFOD1100	Motorola
OE	81	FS1010	Antel Optro
OE	81	NDL2208	NEC Corp J.
OE	80		
OE	80		
OE	80	Part Number	Manufacture
OE	80		
OE	80	TEYT5500	Telefunken
OE	80	STSKL	Kodenshi
OE	80	2B50C	ABB HAFO
OE	80	PN111W	Matsushita
OE	79		
OE	79		

OE	79	Part Number	Manufacture
OE	79		
OE	79	BPX48	SiemensOpt
OE	79	45PQU	AdvDetector
OE	79	SFH204	Siemens Akt
OE	79	MD144-5	Centronic
OE	83		
OE	83		
OE	83	Part Number	Manufacture
OE	83		
OE	83	P1-12	CooperLase
OE	83	62SV	PhilipsElec
OE	83	2635	InfraredInd
OE	83	429	Eltec Inst
OE	75		
OE	75		
OE	75	Part Number	Manufacture
OE	75		
OE	75	MCD735	Solitron
OE	75	CK2071	Raytheon Co
OE	75	P873-24	Hamamatsu
OE	75	CHS70BGE	Secor Opto
OE	71		
OE	71		
OE	71	Part Number	Manufacture
OE	71		
OE	71	LTK4N28V	Lite-On
OE	71	PC4N28	Sharp Corp
OE	71	MOC8205	Motorola
OE	71	OPI150	Optek Tech
OE	34		
OE	34		
OE	34	Part Number	Manufacture
OE	34		
OE	34	C86037E	GE Solid St
OE	34	HFBR1001	Hewlett Pkd
OE	34	RLD78A	Rohm Co Lt
OE	34	375CQY/B	AmperexEle
MP	121		
MP	121		
MP	121	Part Number	Manufacture
MP	121		
MP	121	UPD70322C	NECElecsIn
MP	121	MK68211/4	ThomsonMos
MP	121	HPC36003L	Natl Semi
MP	121	Z8216-25	Zilog Inc
MP	85		
MP	85		
MP	85	Part Number	Manufacture

MP	85	
MP	85	CL-SH130- CirrusLogic
MP	85	M5L8279P Mitsubishi
MP	85	VL6845RCSVLSI Tech
MP	85	SCB2673ACSignetics
MP	63	
MP	63	
MP	63	Part NumberManufacture
MP	63	
MP	63	MC68851R(Motorola
MP	63	AM29062 AdvncdMicro
MP	63	SCC68906CPhilipsElec
MP	63	32201 AT&T
MP	98	
MP	98	
MP	98	Part NumberManufacture
MP	98	
MP	98	AM29C101/AdvncdMicro
MP	98	IDT79R301(Intgrtd Dvc
MP	98	MM58174A(Natl Semi
MP	98	DSP32-160(AT&T
SM	122	
SM	122	
SM	122	Part NumberManufacture
SM	122	
SM	122	DM28C256-SEEQ Tech
SM	122	X28C256MEXicor Inc
SM	122	HMEE4812&Hybrid Mmry
SM	126	
SM	126	
SM	126	Part NumberManufacture
SM	126	
SM	126	CY7C263-4 CypressSerr
SM	126	C27128A1 Texas Instr
SM	126	27C128-12CGenerallnst
SM	126	M5M27C10:MitsubiElec
SM	123	
SM	123	
SM	123	Part NumberManufacture
SM	123	
SM	123	SSL7403S4 Saratoga
SM	123	74F413SC FairchildSC
SM	123	IDT72103S&Intgrtd Dvc
SM	123	IDT72104S&Intgrtd Dvc
SM	124	
SM	124	
SM	124	Part NumberManufacture
SM	124	
SM	124	TMS27PC1:Texas Instr

Sheet1

SM	124	TMM24128/ToshibaAme
SM	124	TMS27PC5:Texas Instr
SM	124	M5M23C40(MitsubiElec
SM	125	
SM	125	
SM	125	Part NumbeManufacture
SM	125	
SM	125	HN62301BFHitachi Ltd
SM	125	TC532000P ToshibaAme
SM	125	LH532100 Sharp Corp

Sheet1

HEADLINE,C,65

CHECK,C,1

V | | gfs | VGS|IGSS|Ciss|PD |Derate|T(°C)| |
 BR |IDSS|Min Max|off|Max |Max |Max | at |Oper |Package |
 GSS|(A) | (S) |Max|(A) |(F) |(W) |(W/°C)|Max | Style |

15 1.2m 8.0m 17m 1.5 1.0n 7.0p 150m 125 J SOT-23 |
 25 20m 4.0m 8.0m 6.0 1.0n 5.0p 225m 1.8m 150 J SOT-23 |
 40 1.8m 300u 1.5m 3.0 3.0p 3.0p 400m 3.2m 150 S TO-99 |
 50 10m 2.0m 7.0m 5.0 250p 20p 300m 1.7m 200 S TO-72 |
 V | |IC | |Cobo|ICBO| V |PD |Derate|T(°C)| |
 BR | |Max| fT |Max|Max |BR |Max| at |Oper |Package |
 CBO|hfe|(A) |(Hz)|(F) |(A) |CEO|(W) |(W/°C)|Max | Style |

10 3.5 100m 2.0M 11p 50u 10 150m 1.5m 100 J TO-22 |
 10 150 300m 5.0M 8.0p 10u 150m 2.3m 100 J TO-5 |
 25 50 100m 1.0M 35p 15u 20 120m 75 J CAN |
 32 110 1.0 1.0M 200n 24 300m 4.0m 100 S TO-1VAR |
 V | |IC | |Cobo|ICBO| V |PD |Derate|T(°C)| |
 BR | |Max| fT |Max|Max |BR |Max| at |Oper |Package |
 CBO|hfe|(A) |(Hz)|(F) |(A) |CEO|(W) |(W/°C)|Max | Style |

12 80 100m 600M 3.5p 5.0u 7.0 60m 769u 100 S TO-18 |
 32 45 250m 250k 14p 12u 16 200m 3.1m 100 J TO-1 |
 50 190 500m 1.7M 25p 100u 50 200m 2.6m 100 J TO-5 |
 110 50 1.0 1.0M 40p 100u 40 300m 5.0m 100 J TO-5 |
 V | |IC | |Cobo|ICBO| V |PD |Derate|T(°C)| |
 BR | |Max| fT |Max|Max |BR |Max| at |Oper |Package |
 CEO|hfe|(A) |(Hz)|(F) |(A) |CBO|(W) |(W/°C)|Max | Style |

18 175 100m 60M 22p 250n 18 500m 3.3m 175J TO-104VR|
 35 150 30m 10M 6.0p 10u 50 300m 2.0m 175J TO-18 |
 80 330 1.0 120M 11p 100n 80 1.0 8.0m 150J SOT-89 |
 160 50 50m 150M 4.5p 100n 180 225m 1.8m 150J SOT-23 |
 V | |IC | |Cobo|ICBO| V |PD |Derate|T(°C)| |
 BR | |Max| fT |Max|Max |BR |Max| at |Oper |Package |
 CEO|hfe|(A) |(Hz)|(F) |(A) |CBO|(W) |(W/°C)|Max | Style |

24 30 150m 4.0M 20p 100n 25 350m 2.8M 150 J TO-92 |
 32 175 100m 200M 4.5p 10n 32 625m 5.0m 150 J TO-226AA|
 65 180 100m 100M 3.0p 100n 70 600m 150 J TO-92 |
 150 60 10m 100M 6.0p 50n 160 350m 150 J TO-236 |
 V |IC |PD | | |ICBO|tr tf |T(°C)| |
 BR |Max|Max| hFE | fT |Max|Max Max |Oper |Package |
 CEO|(A)|(W)|Min Max|(Hz)|(A) |(s) (s) |Max | Style |

30 0.5 6.2 10k 60k 75M 500n 100n 800n 150 A TO-202 |
 45 1.0 5.0 1.5k 70M 50n 400n 2.0u 175 J TO-205AD|
 150 2.0 4.0 1.0k 50M 1.0u 175 J TO-33 |
 350 20 150 10k 10M 250u 220n 1.3u 175 J TO-3 |

Sheet1

V | IC | PD | Ma |
 BR | Max | fT | Max | tl | Package |
 CEO | hfe | (A) | (Hz) | (W) | Description | Style |

15 50 50m 600M 600m Si VCES 30Vdc;VEBO 3.0Vdc TO-99 |
 25 150 20m 100M 500m Si VBE1-2 3Mv max TO-71 |
 45 167 25m 450M 500m Si Bias Current 20nA TO-78 |
 45 200 50m 220M 750m Si VBE(1-2) 2mV max TO-78 |
 VBR | Idss | PD | Rds | GFS | Vgs | Ciss | Tr | Tf | T(°C) |
 DSS | Max. | Max. | (on) | Min. | (th) | Max. | Max. | Max. | Oper. | Package |
 (V) | (A) | (W) | Ū | (S) | Max. | (F) | (S) | (S) | Max. | Style |

10 50m 300m 50 10m 1.0 150p 1.0n 10n 150J TO-72 |
 40 1.0 1.0 15 500m 1.6 1.6n 10n 13n 150C TO-220AB |
 60 3.5 15 20 1.0 4.0 200p 25n 20n 150J TO-205AF |
 60 7.0 25 60 3.0 4.0 240p 150n 150n 150J TO-205AD |
 Ic | VBR | ICBO | PD | Operating |
 Max | CEO | Hfe | fT | Max. | Max. | Temp. (°C) | Package |
 (A) | (V) | Min. | Max. | (Hz) | (A) | (W) | Maximum | Style |

500m 18 70 300 100k 5.0m 600m 100J TO-1 |
 800m 30 40 300 400k 5.0m 600m 75J TO-1 |
 1.0 30 65 270 100k 25u 650m 100J TO-1 |
 1.0 30 70 300 300k 25u 1.0 100S TO-1 |
 | Character | No. | Bits | No | ta(A) | Vcc | Operating |
 Tech- | Display | of | Per | of | Max | Nom | Temp. | Pkg |
 nology | Mode | Char | Char | OP | (s) | (v) | Range(°C) | Style | Pinout |

TTL Row Scan 64 63 1 55n 5.0 | -55 - 125 | DIP | 16-145 |
 TTL Row Scan 128 63 1 45n 5.0 | 0 - 70 | DIP | 16-145 |
 NMOS Row/Column 128 63 7 350n 5.0 | 0 - 70 | DIP | 24-326 |
 NMOS Seg or Dot 128 77 7 400n 5.0 | 0 - 70 | DIP | 24-16 |
 | No. | | | ta | | Vcc | Operating |
 Tech- | of | Bit | Bit | Max | | Nom | Temp. | Pkg |
 nology | Word | In | Out | Mode | (s) | IOL | VI | (v) | Range(°C) | Style | Pinout |

TTL 40 6 6 Static 40n 12m .4 5.0 | -10 - 70 | DIP | 16-31 |
 TTL 40 6 6 Static 40n 12m .4 5.0 | -10 - 70 | DIP | 16-31 |
 TTL 40 6 6 Static 50n 12m .4 5.0 | 0 - 70 | DIP | 16-130 |
 TTL 256 8 8 Static 70n 16m .5 5.0 | 0 - 70 | DIP | 16-131 |
 | No. | Pro- | No. | tPD | | Vcc | Operating |
 Tech- | of | duct | Out | Max | Out | Logic | | Nom | Temp. | Pkg |
 nology | Inp | Term | put | (s) | put | Modes | Type | (v) | Range(°C) | Style | Pinout |

CMOS 16 8 8 25n TS Cm/Sq EEPL 5.0 | 0 - 70 | DIP | 20-79 |
 CMOS 10 4 8 35n TS Cm/Sq EPLD 5.0 | 0 - 70 | DIP | 20-71 |
 BPLR 12 48 8 15n TS Cm/Sq FPLS 5.0 | 0 - 70 | DIP | 20-154 |
 CMOS 16 7 8 35n OC Cm HAL 5.0 | 0 - 70 | SO | 20-214 |
 | Config | t(A) | tWC | | Vcc | Operating |

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Tech-	Word	Max	Min	Out	Nom	Temp.	Pkg	
nology	x Bit	(s)	(s)	put	Mode	(v)	Range(°C)	Style Pinout

CMOS	64kx1	35n	35n	TS	Dynamic	5.0	0 - 70	DIP 24-527
CMOS	64kx1	100n	160n	TS	Dynamic	5.0	-10 - 70	DIP 16-207
CMOS	256kx1	35n	30n	TS	Static	5.0	0 - 70	DIP 24-166
CMOS	256kx1	45n	35n	TS	Static	5.0	0 - 70	DIP 24-294
Iout								Vcc Operating
Max								Nom Temp. Pkg
(A)	Features							(v) Range(°C) Style Pinout

14m	VTR	Capstan/Drum	Phase	Controllr	13	-20 - 65	FP	
20m	Precision	Servo	Cntrl,	Class	B/D	20	-20 - 85	DIP 20-38
200m	Speed	Cntrl,	Volt	Level	Indicator	6.0	-20 - 85	FP 16-403
1.2	DC	Servo	Contrlr,	Electronic	10	-25 - 85	SIP	5-32
f								Vcc Operating
Max								Nom Temp. Pkg
(Hz)	Features							(v) Range(°C) Style Pinout

500k	PLL,	VCO,	Phase	Comp,	Amp,	Freq	Adj	16 0 - 70 DIP 14-332
10M	PLL	for	Phono	Speed	Control	7.0	-40 - 85	DIP 16-281
16M	PLL	for	Transmission	Timing	12	-40 - 85	DIP	
65M	PLL	w/Post	Detection	Processor	5.0	-55 - 125	DIP	16-44
Output								Vcc Operating
Type	Features							(v) Range(°C) Style Pinout

L	Volt	Span	80-130mV,	Range	10	PSI	6.0	-45 - 125 DIP 6-8
L	Volt	Pressure	Range	0-2Bar	7.5		-40 - 100 DIP 6-7	
L	Volt	75-150mV	FS	Out,	0-100psig/psia	6.0	-45 - 125 TO-8 12-9	
L	Volt	Low	Pressure	Sensor,	0-100psia	18	-40 - 80 SIP 4-15	
								Vcc Operating
								Nom Temp. Pkg
	Features							(v) Range(°C) Style Pinout

Speech	Network,	Detects	Line	Curr	3.5	0 - 70	SO	28-998
VSB	Freq	Inverter,	Speech	Scrambler	5.0	-30 - 85	DIP	28-68
Echo	Cancellation	Circuit	5.0	0 - 70	DIP	28-23		
Speech	Ckt,	Electret	Microphone	Amp	20	-20 - 75	DIP	16-468
								Vcc Operating
								Nom Temp. Pkg
	Features							(v) Range(°C) Style Pinout

Color	Demodulator	Combination	IC	14	0 - 50	DIP	16-432	
PAL	Luminance/	Chroma	Processor	13	-25 - 85	DIP	24-41	
Sound	& Video	IF	Stage	12	0 - 50	DIP	20-41	
RGB	Matrix	Preamplifier	13	0 - 50	DIP	16-397		
								Clock Inst Vcc Operating
Tech-								Nom Temp. Pkg
	Rate Leng							

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nology	(Hz)	Bits	Features	(v)	Range(°C)	Style	Pinout			
CMOS	16.6M	32	10Mips,32 GP Registr	5.0	0 - 70	PGA	144-33			
CMOS	16.7M	32	10Mips,32 GP Registr	5.0	0 - 70	PGA	144-4			
CMOS	25M	32	20Mips,32 GP Registr	5.0	-55 - 125	LDCC	172-1			
CMOS	33M	32	25Mips,136 GP Regist	5.0	0 - 70	PGA	172-35			
		Word		Vcc	Operating					
Tech-	uP	Length	I/O		Nom	Temp.	Pkg			
nology	Family	(Bits)	Mode	Nomenclature	(v)	Range(°C)	Style	Pinout		
CMOS	68000	8	Ser DACIA	5.0	-25 - 85	DIP	40-371			
CMOS	82586	16	Ser STARLAN I/F	5.0	0 - 70	DIP	20-1			
CMOS	80N00	8	Par 128x8 RIOT	5.0	-55 - 125	LDCC	44-60			
NMOS	Z80	8	Ser Dual As XCVR	5.0	-25 - 85	DIP	40-298			
		Ckts	tPD	@	Vcc	Operating				
Tech-	Per	Address	Max	IOL	VOL	Nom	Temp.	Pkg		
nology	Pkg.	Lines	(s)	Test	Max	(v)	Range(°C)	Style	Pinout	
TTL	1	3	5.0n 48m	0.5	5.0	0 - 70	LDCC	20-276		
ECL	1	3	6.0n 20m	-0.96	-5	-30 - 85	DIP	16-484		
CMOS	1	3	27n 6.0m	0.33	5.0	0 - 70	DIP	20-485		
TTL	1	3	35n 16m	0.4	5.0	-55 - 125	FP	14-260		
From	To	Pkg	Function	Test	MAX	(v)	Range(°C)	Style	Pinout	
CMOS	TTL	6	NINV 3.4m	1.5	15	-40 - 85	DIP	16-279		
ECL	TTL	6	NIIV 20m	0.5	5.0	0 - 85	QFP	24-304		
TTL	CMOS	6	DIFF 1.6m	0.4	5.0	-40 - 85	DIP	20-229		
TTL	ECL	4	INV 25m	0.5	5.2	0 - 70	DIP	16-631		
		Drivers		@	tPD	Vcc	Operating			
Tech-	Per	IOL	VOL	Max	Nom	Temp.	Pkg			
nology	Package	Test	MAX	(s)	(v)	Range(°C)	Style	Pinout		
MOS	1	1.6m	0.4	140n	5.0	0 - 70	DIP	18-184		
CMOS	1	4.0m	0.4	10n	8.0	0 - 70	DIP	18-49		
GaAs	2	1.0m	1.8	800n	4.5	0 - 70	FP	16-514		
CMOS	4	5.0m	0.2	175n	12	0 - 70	DIP	16-455		
Ckt	tPD	Hyster-	Input		Vcc	Operating				
Per	Max	esis	Threshold	Noise	Nom	Temp.	Pkg			
Pkg	(s)	(V)	VT+	VT-	Margin	(v)	Range(°C)	Style	Pinout	
2	27m	400m	1.4	1.0	0.5	5.0	0 - 70	DIP	14-80	
4	10n	800m	1.7	0.9	1.4	5.0	-55 - 125	DIP	14-75	
4	40n	3.5	8.9	5.4	4.0	15	-40 - 85	DIP	14-131	
4	80n	1.1	9.05	8.3	6.7	15	-55 - 125	DIP	14-131	
		Ckt	Chan	Input	tPD	Vcc	Operating			
Drive	Tech-	Per	Per	Threshold	Max	Nom	Temp.	Pkg		
Type	nology	Pkg	Ckt.	VT+	VT-	(s)	(v)	Range(°C)	Style	Pinout
Core	BPLR	2	1	45m	35m	40n	5.0	-55 - 125	DIP	16-757

Sheet1

Core TTL 1 22m 14m 35n 4.5|0 - 70 |DIP |14-432
MOS TTL 6 1 200m 150m 20n 5.0|0 - 70 |DIP |18-3
Wire TTL 1 4 2.3m 300u 25n 5.0|0 - 70 |DIP |16-637
|PD | |Vcc|Operating| |
Tech- |Max| |Nom| Temp. | Pkg |
nology|(W)| Features |(v)|Range(°C)|Style|Pinout

BPLR 1.8 LVDT-Digit Converter,16-bit 15 |-55 - 125|DIP |40-225
BPLR 1.8 R/W Peramp;CT Ferrite Heads 12 |0 - 70 |DIP |28-290
CMOS 0.3 A-Law Central Office I/F 5.0|0 - 70 |MOD |40-121
NMOS 1.0 PrgrmbI Polynomial Generatr 5.0|0 - 50 |DIP |20-461
|Adders|Arith-|tPD | |Vcc|Operating| |
Tech- |Per |metic |Max | |Nom| Temp. | Pkg |
nology| Pkg. |Code |(s) | Features |(v)|Range(°C)|Style|Pinout

GaAs 1 Binary 1.2n Cascadable -5 |0 - 80 |LDCC |40-932
TTL 1 Binary 10n End-Pin VCC 5.0|0 - 70 |DIP |16-618
CMOS 1 Binary 69n Look-Ahead 10 |-40 - 85 |DIP |16-907
CMOS 1 Binary 200n Center VCC 10 |-55 - 125|DIP |16-645
| |Counter| f | |Vcc|Operating| | |
Tech- |Mod- | Per | Max | |Nom| Temp. | Pkg | |
nology|ulus |Package| (Hz)|Preload|(v)|Range(°C)|Style|Pinout|

TTL 12 1 42M No 5.0|-20 - 70 |DIP |14-625|
GaAs 16 1 3.0G No -5 |0 - 70 |FP |10-921|
CMOS 128 1 55M No 5.0|-55 - 125|DIP |14-559|
TTL 255 1 50M Yes 5.0|-55 - 125|LLCC |28-79 |
| f | |Number |Vcc|Operating| | |
Tech- |Max | Modulus | of |Nom| Temp. | Pkg | |
nology|(Hz)| Max Min | Stages |(v)|Range(°C)|Style|Pinout|

CMOS 2.2M 100 4 7 10 |-40 - 85 |DIP |16-55 |
CMOS 6.0M 10k 10 4 15 |-40 - 85 |DIP |8-70 |
ECL 1.3G 22 20 5 -5 |-40 - 85 |DIP |16-923|
GaAs 2.2G 11 10 4 5.0|-55 - 85 |QFP |16-356|
|Gates|tPD | |Vcc|Operating| | |
Tech- |Per |Max | |Nom| Temp. | Pkg | |
nology| Pkg. |(s) | Features |(v)|Range(°C)|Style|Pinout

ECL 3 2.0n Complimentary Output -5 |0 - 70 |DIP |16-359
ECL 4 3.6n Totem Pole 5.0|-55 - 125|LLCC |20-93
TTL 4 30n Open Collector 5.0|-55 - 125|DIP |14-391
ECL 5 2.6n Complimentary Output -4 |0 - 85 |DIP |24-3
|tPD | 3-State | |Vcc|Operating| | |
Tech- |Max |or Open | |Nom| Temp. | Pkg | |
nology|(s) |Collector| Features |(v)|Range(°C)|Style|Pinout

CMOS 5.2n 3-State Transparent 5.0|0 - 70 |LDCC |20-257
CMOS 5.6n 3-State Inverted Outputs 5.0|-55 - 125|DIP |20-251

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CMOS	12n	3-State	Transparent	5.0	-55 - 125	DIP	20-241
TTL	13n	3-State	Non-Inverting	5.0	0 - 70	SO	24-63
Tech-	tPD			Vcc	Operating		
nology	(s)	Max	Features	Nom	Temp.	Pkg	Pinout
				(v)	Range(°C)	Style	
<hr/>							
GaAs	700p	for use w/	10G100,10G181	-5	0 - 80	LLCC	40-933
ECL	2.8n	for use w/	10h180,10H181	-5	0 - 70	LDCC	16-748
CMOS	80n	for use w/	40181	15	-55 - 125	DIP	16-48
CMOS	220n	for use w/	14581 ALU	15	-40 - 85	DIP	16-638
Tech-	tPD	Serial	3-State	Vcc	Operating		
nology	(s)	Max	or	or Open	Nom	Temp.	Pkg
			Parallel	Collector	(v)	Range(°C)	Style
							Pinout
<hr/>							
CMOS	35n	Parallel	3-State	5.0	0 - 70	PGA	132-92
CMOS	50n	Parallel	3-State	5.0	0 - 70	PGA	145-1
CMOS	125n	Parallel	3-State	5.0	0 - 70	PGA	144-90
CMOS	400n	Parallel	3-State	5.0	0 - 70	PGA	68-132
Tech-	f			Vcc	Operating		
nology	(Hz)	Max	Features	Nom	Temp.	Pkg	Pinout
				(v)	Range(°C)	Style	
<hr/>							
TTL	1.5M	Enc/D	Receive Synchronizer	5.0	0 - 70	DIP	32-12
CMOS	10M	Bit-Slice	Correlator	5.0	-20 - 85	PGA	144-1
CMOS	33M	16-Bit	EDC w/Diagnostics	5.0	-55 - 125	DIP	48-10
GaAs	1.0G	Pulse Driver/Format	Conver	5.0	0 - 80	FP	16-251
Resol-	Conver-	FSR	Out-	Vcc	Operating		
ution	sion	Error	put	Nom	Temp.	Pkg	
(Bits)	Time(S)	LSB/%	Type	Features	(v)	Range(°C)	Style
							Pinout
<hr/>							
8	140u	0.8%	TTL Int/Ext Ref	5.0	0 - 70	DIP	16-852
8	500u	0.50	TTL Int/Ext Ref	5.0	0 - 70	DIP	N/A
8	800u	0.50	TTL Int/Ext Ref	5.0	-40 - 85	DIP	8-17
8	800u	0.50	TTL Int/Ext Ref	5.0	0 - 70	DIP	8-17
Tech-			Turn-On	Input	Vcc	Operating	
nology	Analog	Analog	Time	Logic	Nom	Temp.	Pkg
	Voltage	Current	(S)	Level	(v)	Range(°C)	Style
							Pinout
<hr/>							
CMOS	20.0	10.0m	175n	CMOS	5.0	-25 - 85	DIP
CMOS	20.0	10.0m	175n	CMOS	5.0	0 - 70	DIP
CMOS	20.0	10.0m	425n	CMOS	5.0	-55 - 125	DIP
JFET	20.0	10.0m	500n	TTL	5.0	0 - 70	DIP
Mux.		tPD	Input	Vcc	Operating		
Per	Analog	Analog	Max.	Logic	Nom	Temp.	Pkg
Pkg.	Voltage	Current	(S)	Level	(v)	Range(°C)	Style
							Pinout
<hr/>							
3	20.0	25.0m	30n	CMOS	20	-55 - 125	FP
3	20.0	25.0m	30n	CMOS	20	-40 - 85	DIP
4	15.0	15.0m	35n	TTL	20	-40 - 85	DIP

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4 15.0 15.0m 37n TTL 20 | -40 - 85 | FP | 16-282 |
 | | tPD | @ Test | Operations | Vcc | Operating | |
 Tech- | | Max | Oper- | Supported | Nom | Temp. | Pkg |
 nology | Bits | (s) | ation | Logic Arith. | (v) | Range(°C) | Style | Pinout

CMOS 8 24n LOG 16 16 5.0 | -40 - 85 | LLCC | 84-2
 CMOS 16 33n SUM 5 3 5.0 | -55 - 125 | DIP | 64-901
 CMOS 32FP 74n 7 9 5.0 | 0 - 70 | PGA | 169-1
 CMOS 32FP 100n 9 55 5.0 | 0 - 70 | PGA | 144-90
 | | tPD | | | Vcc | Operating | |
 Tech- | | Max | | | Nom | Temp. | Pkg |
 nology | Bits | (s) | Enable | Features | (v) | Range(°C) | Style | Pinout

CMOS 8 14n No 2-Byte Compare 5.0 | -40 - 85 | SO | 20-296
 TTL 8 15n No Expandable 5.0 | -55 - 125 | DIP | 20-913
 TTL 9 13n No 2-4 Line Decod 5.0 | 0 - 70 | DIP | 24-110
 TTL 12 15n Yes Fuse Programbl 5.0 | 0 - 70 | DIP | 16-604
 | | | | | Vcc | Operating | |
 Tech- | | | | | Nom | Temp. | Pkg |
 nology | Description | | (v) | Range(°C) | Style | Pinout

PMOS 4-Digit 12/24 Hour Alarm Clock -15 | 0 - 50 | DIP | 16-888
 CMOS Analog Alarm Clock Driver 1.5 | 0 - 50 | DIP | 14-786
 CMOS 8-Digit Soalr Calculator 1.5 | 0 - 50 | QFP | 48-9
 CMOS Rythm Generator, 47.52k Clk Max 2.0 | 0 - 50 | DIP | 16-728
 | | | | | tPD | Ckts | Noise | Vcc | Operating | |
 Tech- | Lines | Lines | Max | Per | Reject | Nom | Temp. | Pkg |
 nology | In | Out | (s) | Pkg. | (V) | (v) | Range(°C) | Style | Pinout

CMOS 4 10 8.0n 1 1.2 5.0 | -40 - 85 | DIP | 16-649
 TTL 4 10 20n 1 0.3 5.0 | -20 - 70 | DIP | 16-426
 CMOS 4 10 56n 1 1.2 5.0 | -40 - 85 | DIP | 20-57
 CMOS 4 10 80n 1 3.0 15 | -55 - 125 | DIP | 16-113
 | | Ckts | tPD | Output | | Vcc | Operating | |
 Tech- | Per | Max | Rise Time | | Nom | Temp. | Pkg | |
 nology | Pkg. | (s) | (s) | Fan Out | (v) | Range(°C) | Style | Pinout |

ECL 1 4.0n 1.0n 70 -5 | 0 - 85 | DIP | 24-90 |
 TTL 1 11n 4.0n 10 5.0 | 0 - 70 | SIP | 8-14 |
 TTL 5 25n 4.0n 20 5.0 | 0 - 70 | DIP | 14-339 |
 TTL 10 50n 4.0n 20 5.0 | 0 - 70 | DIP | 14-340 |
 | | f | | | Out- | tPD | Vcc | Operating | |
 Tech- | | Max | | Pre- | put | Max | Nom | Temp. | Pkg | |
 ology | Bits | (Hz) | Clear | set | Type | (s) | (v) | Range(°C) | Style | Pinout |

TTL 8 50M No No TS 28n 5.0 | 0 - 70 | DIP | 20-903 |
 CMOS 8 58M Yes No TP 17n 5.0 | -55 - 125 | DIP | 20-152 |
 CMOS 8 60M Yes Yes TS 14n 5.0 | -55 - 125 | SO | 28-64 |
 TTL 8 75M No No TS 17n 5.0 | -55 - 125 | DIP | 20-241 |

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Tech-nology	Ckts	tPD	Per	Max	Vcc	Operating	Nom	Temp.	Pkg	Style	Pinout
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ECL	9	1	6.0n	Odd/Even	-5	-30 - 85	DIP	16-24			
TTL	9	1	21n	Odd/Even	5.0	-55 - 125	DIP	14-380			
CMOS	9	1	200n	Inhibit Input	15	-55 - 125	DIP	14-223			
GaAs	9	2	1.3n	Cascadable	-5	0 - 80	LLCC	40-930			

Power	R	f	Voltage	THD	R in	Vcc	Operating	Nom	Temp.	Pkg	Style	Pinout
1.0	8.0	65k	70	0.055	4.0M	14	0 - 70	DIP	14-125			
2.0	8.0	20k	34	0.8	5.0M	18	-20 - 75	DIP	14-452			
12	4.0	20k	75	0.5	1.0M	18	-55 - 125	ZIP	13-2			
35	8.0	60k	26	0.5	56k	60	-30 - 85	SIP	16-357			

BW	3dB	Gain	Min	Max	Rated Max	Nom	Temp.	Pkg	Style	Pinout
2.0k	40	1.0T	20u	75m	Typ.	15	-25 - 85	DIP	38-3	
300k	Typ	60	10G	450u	600m	15	-55 - 125	DIP	14-258	
750k	Typ	60	1.0G	200u	450m	15	-55 - 125	DIP	18-101	
3.0M	Typ	60	1.0T	2.0m	500m	15	-25 - 85	DIP	18-37	

Ckts	IIB	Unity	VIO	Vcc	Operating	Nom	Temp.	Pkg	Style	Pinout
4	4.0p	5.0M	750u	SR35V/us,CMR100dB	15	-55 - 125	DIP	14-67		
4	100p	1.0M	10m	AV 70dB,CMRR 70dB	15	-20 - 75	SO	14-67		
4	400p	1.0M	15m	SR3.5V/us,AV6V/mV	15	-20 - 75	DIP	14-67		
4	4.5n	5.0M	1.6m	SR 14V/us,JFET In	15	-55 - 125	DIP	14-67		

Upper	Lower	Gain	Min	Vcc	Operating	Nom	Temp.	Pkg	Style	Pinout
200M	7.0M	11	4.9	Logarithmic	6.0	-55 - 125	TO-99	16-75		
860M	40M	17	6.0	GaAs Tech.	4.5	0 - 70	TO-39	4-38		
2.0G	200M	13.5	8.0	uWave w/ AGC	15	-55 - 100	CAN	5-55		
3.0G	10k	22		uWave w/ AGC	5.0	0 - 70	FP	8-205		

Max	f	Vcc	Operating	Nom	Temp.	Pkg	Style	Pinout
1.0M	Acc	600m%	Tc400uV/C,BW 3dB	1.0MHz	30	-55 - 125	TO100	10-81
3.0M	SR	20V/us, Error +/-0.5%		15	0 - 70	DIP	14-328	
50M	Balanced	Modulator,Freq Doubler		10	-55 - 125	TO100	10-156	
60M	Mult/Divide-Wideband	Dual-Channel		5.0	-55 - 125	DIP	16-89	

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Max (Hz)	Features	Nom (v)	Temp. Range(°C)	Pkg Style	Pinout					
1.0M	Accur 0.6%,Tc 400uV/C,BW 3dB 1MHz	30	-55 - 125	TO100	10-81					
3.0M	SR 20V/us, Error +/-0.5%	15	0 - 70	DIP	14-328					
50M	Balanced Modulator,Freq Doubler	10	-55 - 125	TO100	10-156					
60M	Mult/Divide-Wideband Dual-Channel	5.0	0 - 70	DIP	16-89					
f	Out Iout V U.V.	V in	Vcc	Operating						
Max (Hz)	Type	Max (A)	Max (V)	Nom (v)	Temp. Range(°C)	Pkg Style	Pinout			
300k	UT	250m	40	No	No	7.0	40	-20 - 75	DIP	16-45
400k	TP	100m	35	Yes	Yes	8.0	35	-25 - 85	DIP	16-143
450k	UT	100m	40	Yes	No	7.0	40	-20 - 75	DIP	16-166
1.0M	TP	500m	30	Yes	Yes	10	30	0 - 70	DIP	16-486
						Vcc	Operating			
Features	Nom (v)	Temp. Range(°C)	Pkg Style	Pinout						
Adj,1uA-10Ma Oper,0.02%/V Regulation	40	-55 - 125	TO-46	3-62						
Adj,1uA-10mA Oper,.02%/V Regulation	40	0 - 70	TO-92	3-67						
Current Mirror,1:4, Vo 5-35V,10MHz		0 - 70	TO226	3-10						
Volt-to-Cur Conv,0-10Vin,0-25mA Out		-55 - 125	DIP	16-530						
			Vcc	Operating						
Tech-nology	Features	Nom (v)	Temp. Range(°C)	Pkg Style	Pinout					
BIP	Both Trigger & Reset	15	-20 - 75	SO	8-229					
CMOS	3MHz Astable Frequency Capable	15	-40 - 85	SO	8-229					
BIP	Io 200mA max,Voh 12.7V,Vol 2.7V	15	-20 - 75	DIP	8-229					
BIP	RCext;Temp Compensated,Io 400mA	15	-40 - 85	DIP	14-979					
No.	Transistor Rating									
Per	VCEO IC PD fT			Pkg						
Array	(V) (A) (W) (Hz)	Features	Style	Pinout						
2	40 30m 625m 200M VBE(1-2) 25mV	CAN	7-959							
4	15 500m 1.5 450M VCBO 40Vdc	TO116	14-96							
4	40 30m 500m 300M hFE Match .02	DIP	14-297							
5	20 50m 750m 550M Q1&Q2 ComEmit	SO	14-317							
IIB	t Resp VIO Input	Vcc	Operating							
Max (A)	Max (s)	Max (V)	Max (V)	Strobe (v)	Nom (v)	Temp. Range(°C)	Pkg Style	Pinout		
5.0p	200n	10m	3.25	No	5.0	0 - 70	SO	14-424		
100n	300n	1.0m	12.0	No	15	-55 - 125	DIP	14-190		
200n	215n	8.0m	+/-12.0	No	15	-55 - 125	DIP	16-163		
400n	1.0u	3.0m	+/-13.0	No	15	-25 - 85	DIP	16-228		
V	V Drift	Vcc	Operating							
Ref	Max	Nom	Temp.	Pkg						

Sheet1

(V)	(ppm/C)	Features	(v)	Range(°C)	Style	Pinout	
1.2	20	Typ uPower,Ifwd 10mA,IRev 30mA		0 - 70	TO-92	3-66	
2.5	10	Typ Vo Trimmed+/-1%,Stabil 250		-55 - 125	TO-39	3-83	
5.0	8.5	5V+/-15mV,Line Reg 0.015%		-55 - 125	TO-99	8-380	
10	10	Line Reg 3ppm/mV,Load 3ppm		-25 - 85	DIP	14-460	
V	Iload	Drop	Output	PD	Vin	Vcc	Operating
Reg	Max	Out	Toler.	Max	Max	Nom	Temp.
(V)	(A)	(V)	(%)	(W)	(V)	(v)	Range(°C)
2.6	100m	1.7 5.0	1.6m 20.0 20		0 - 70	SO	8-60
5.0	100m	2.0 5.0	900m 36 36		-20 - 75	TO-92	3-76
8.0	150m	1.7 4.0	800m 35 35		-30 - 75	TO-92	3-76
10	1.5	2.4 5.0	15 40 40		-55 - 155	TO-3	3-55
V	Reg	I	Load	Drop	PD	Vin	Operating
Min	Max	Max	Out	Max	Max	Temp.	Pkg
(V)	(V)	(A)	(V)	(W)	(V)	(v)	Range(°C)
1.2	37	150m 3.0	800m 40		-55 - 125	TO100	10-16
1.2	37	1.5 2.5	20 40		-25 - 140	TO-3	3-15
2.0	37	3.5 3.0	1.0 40		-55 - 125	DIP	14-218
2.6	38	150m 2.0	800m 40		-55 - 140	TO-96	10-108
	Ckts	@		Vcc	Operating		
Logic	Tech-	Per	IOL	VOL	Output	Nom	Temp.
Type	nology	Pkg.	Test	Max	Type	(v)	Range(°C)
INV	CMOS	6 24m	0.5 3-State	5.0		-40 - 85	DIP
INV	CMOS	8 48m	0.55 3-State	5.0		-55 - 125	DIP
INV	TTL	10 48m	0.5 Totem-Pole	5.0		-55 - 125	FP
INV	BiMOS	10 48m	0.5 3-State	5.0		0 - 70	LLCC
	Ckts	tPD		Output	Vcc	Operating	
Tech-	Per	Max	Output	Voltage	Nom	Temp.	Pkg
nology	Pkg.	(s)	Type	Low	High	(v)	Range(°C)
CMOS	8	4.3n 3-State	0.3 4.3 5.0		0 - 70	FP	20-108
TTL	8	6.0n 3-State	0.55 3.4 5.0		0 - 70	DIP	20-174
TTL	8	9.0n 3-State	0.25 3.4 5.0		0 - 70	DIP	20-107
CMOS	8	9.5n 3-State	0.37 3.76 5.0		-40 - 85	DIP	20-131
Ckts		tPD	Input	@	Vcc	Operating	
Per	Tech-	Max	Threshold	IOL	VOL	Nom	Temp.
Pkg.	nology	(s)	VT+	VT-	Test	Max	(v)
3	ECL	2.5n -1.1 -1.4	12m -1.6 -5		-55 - 125	DIP	16-462
4	GaAs	650p -1.0 -1.6	-1.8 -5		0 - 85	LDCC	40-219
4	BPLR	35n 2.0 0.8	8.0m 0.45 5.0		0 - 70	DIP	16-253
5	ECL	2.1n -0.9 -1.8	50m -1.8 -4		0 - 85	DIP	24-264
	tPD	Input	@	Vcc	Operating		
Tech-	Max	Threshold	IOL	VOL	Nom	Temp.	Pkg
nology	(s)	VT+	VT-	Test	Max	Mode	(v)

CMOS 4.0n 2.0 0.8 64m 0.55 Single 5.0 | 0 - 70 | DIP | 20-137
 CMOS 5.0n 2.0 0.8 64m 0.55 Single 5.0 | 0 - 70 | LLCC | 20-136
 CMOS 6.9n 2.0 0.8 24m 0.44 Single 5.0 | -40 - 85 | DIP | 20-999
 CMOS 8.0n 3.15 1.35 6.0m 0.33 Single 5.0 | -40 - 85 | DIP | 20-999
 No. | | Ckts | tPD | | @ | Vcc | Operating | | |
 Of | Tech- | Per | Max | IOL VOL | Nom | Temp. | Pkg | | |
 Lines | nology | Pkg. | (s) | Test Max | (v) | Range(°C) | Style | Pinout |

8 TTL 1 6.1n 20m 0.5 5.0 | 0 - 70 | LDCC | 20-2 |
 8 CMOS 1 30n 6.0m 0.4 5.0 | 0 - 70 | DIP | 16-374 |
 8 CMOS 1 100n 2.4m 0.4 8.0 | -55 - 125 | DIP | 18-85 |
 8 CMOS 1 275n 1.0u 0.1 6.5 | -55 - 125 | DIP | 16-519 |
 Resol- | Settle | Mode: | FSR | Temp. | Inp | Vcc | Operating | | |
 ution | Time | Volt/ | Error | Drift | Com- | Nom | Temp. | Pkg | | |
 (Bits) | (s) | Current | LSB/% | ppm/C | pat. | (v) | Range(°C) | Style | Pinout |

12 70n Voltage 0.50 50 TTL 15 | -55 - 125 | DIP | 24-293
 12 250n Current 0.50 40 TTL 15 | 0 - 70 | DIP | 24-315
 14 750n Voltage 0.50 300 TTL 5.0 | -25 - 85 | DIP | 28-119
 14 1.0u Voltage 0.01% 8 TTL 5.0 | 0 - 70 | DIP | 28-142
 | | Number | | Outp. | | Vcc | Operating | | |
 Tech- | Display | Output | VOH | Drive | Output | Nom | Temp. | Pkg | | |
 nology | Type | Lines | (V) | Curr. | Type | (v) | Range(°C) | Style | Pinout |

IIL Fluores 16 34 ActvHi 7.0 | -20 - 75 | DIP | 30-3
 TTL Incand. 7 30 40m O-Coll 5.0 | 0 - 70 | DIP | 16-179
 CMOS LED 24 11 15m O-Coll 10 | -30 - 75 | DIP | 42-7
 TTL Plasma 7 80 2.0m ActvLo 5.0 | 0 - 70 | DIP | 16-350
 | Ckts | Iout | Output | | Vcc | Operating | | |
 Tech- | Per | Max | Voltage | Output | Nom | Temp. | Pkg | | |
 nology | Pkg. | (A) | Low High | Type | (v) | Range(°C) | Style | Pinout |

BPLR 8 30m 200m 53 Open-Coll. 55 | -20 - 75 | DIP | 20-220
 TTL 8 100m 3.0 36 Open-Coll. 5.0 | 0 - 70 | DIP | 20-184
 BiMOS 8 500m 1.6 50 Open-Coll. 12 | -25 - 85 | DIP | 16-832
 BPLR 8 500m 1.6 50 Open-Coll. | -25 - 85 | DIP | 18-178
 Ckts | Diodes | IF | | VF IF | IR | Operating | | |
 Per | Per | MAX | VRRM | MAX @ TEST | MAX | Temp. | Pkg | | |
 Pkg. | Pkg. | (A) | (V) | (V) (A) | (A) | Range(°C) | Style |

1 8 80m 80 0.9 5.0m 100n -25 - 85 | SIP |
 1 8 300m 60 1.0 100m 100n -65 - 150 | FP |
 1 8 400m 40 1.0 100m 100n -55 - 150 | TO116 |
 1 13 350m 60 1.0 100m 100n -55 - 150 | DIP |
 IO | | | VF IF | | |
 MAX | VRRM | IFSM | MAX @ TEST | Pkg | | |
 (A) | (V) | (A) | (V) (A) | Style |

750m 20 650m 650m 750m | DIP |
 5.0 400 100 1.0 2.0 | BR-3W |
 20 300 470 1.1 20 | FLNGE |
 800 400 49 110 | BR-4Q |
 IREG | Zdyn | | | PD | |
 Nom. | Min | VL | POV | Max | Pkg |
 (A) | (U) | (V) | (V) | (W) | Style |

470u 2.7M 1.05 100 600m | DO213 |
 750u 1.15M 1.2 100 600m | DO204 |
 1.5m 510k 1.60 100 1.25 | TO-18 |
 7.5m 225k 5.4 60 600m | DO-7 |
 IO | | | VF IF | |
 Max | VRRM | IFSM | Max @ Test | Pkg |
 (A) | (V) | (A) | (V) (A) | Style |

50m 90 300m 1.0 3.0m | AXIAL |
 75m 80 550m 1.0 400m | DO-7 |
 3.0 30 150 1.0 2.0m | DO-7 |
 100 28 1.8k 0.4 100 | DO-8 |
 IO | | trr | VF IF | |
 Max | VRRM | Max | Max @ Test | Pkg |
 (A) | (V) | (S) | (V) (A) | Style |

115m 35 10n 1.0 100m | DO-35 |
 1.0 400 200n 1.2 1.0 | DO-41 |
 75 1.2k 700n 1.7 150 | STRM6 |
 1.4k 2.6k 4.0u 2.5 3.4 | DISC7 |
 Po | Frequency | Effi- | | |
 Min | Range | ciency | Voper | Pkg |
 (W) | Min (Hz) Max | (%) | (V) | Style |

50m 6.0G 8.0G 3.0 110 | PILLC |
 50m 8.2G 12.4G 2.0 85 | SCREW |
 450m 10G 12G 5.0 80 | PILLC |
 700m 12.4G 17.5G 7.1 65 | PILLC |
 Vz @ | PD | | Tempco | |
 Nom. Iz | Max | Tol | (parts | Pkg |
 (V) (A) | (W) | % | per 10k) | Style |

4.7 30m 1.0 10 3.0 | AXIAL |
 18 7.0m 200m 5.0 8.5 | TO236 |
 56 10m 1.5 5.0 10 | DO-1 |
 180 1.4m 1.0 20 9.5 | DO-41 |
 Vz @ | PD | | Zz | |
 Nom. Iz | Max | Tol. | Max | Pkg |
 (V) (A) | (W) | % | (U) | Style |

6.8 1.8 50 10 200m | DO-5 |

9.1 1.3 50 20 500m | TO-3 |
 75 20m 5.0 10 55 | AXIAL |
 100 20m 10 10 60 | DO-4 |
 Io | | | VF IF | |
 Max | VRRM | IFSM | Max @ Test | Pkg |
 (A) | (V) | (A) | (V) (A) | Style |

10m 60 2.0 1.0 15m | DO-35 |
 1.0 20 40 550m 1.0 | DO-41 |
 1.7 50 45 500m 1.7 | DO-15 |
 15 30 500 550m 15 | DO-4 |
 Io | | | VF IF | |
 Max | VRRM | IFSM | Max @ Test | Pkg |
 (A) | (V) | (A) | (V) (A) | Style |

200m 150 30 1.0 200m | RADIA |
 500m 100 10 1.2 500m | DO-41 |
 800m 600 35 1.4 1.0 | AXIAL |
 1.0 800 25 1.2 3.0 | DO-15 |
 VRRM | Io | | VF IF | |
 MAX | Max | IFSM | Max @ Test | Pkg |
 (V) | (A) | (A) | (V) (A) | Style |

1.0k 1.0 50 1.2 1.0 | AXIAL |
 2.0k 250m 35 2.7 0.5 | AXIAL |
 10k 150m 10 8.8 150m | FUSE |
 50k 100m 10 66 100m | AXIAL |
 VBR IR | | | tres | |
 Nom. @ Test | IPP | VCL | Max | Pkg |
 (V) (A) | (A) | (V) | (s) | Style |

6.4 10m 62.5 9.6 1.0p | DO215 |
 20.0 1.0m 51.5 29.1 1.0p | DO-13 |
 82.0 1.0m 12.7 12.7 1.0p | AXIAL |
 150 1.0m 7.2 207 1.0p | DO-13 |
 CT | | | | PD | |
 Nom. | C1/C2 | VRRM | Q | Max | Pkg |
 (F) | | (V) | Min. | (W) | Style |

135f 1.2 15 550k 40m | PILLB |
 1.5p 3.2 60 10 400m | DO-7 |
 68p 4.0 50 100 400m | DO-14 |
 155p 2.4 15 70 400m | DO-7 |
 Ip | Ct | | | | |
 Nom. | Max. | rs | Ls | Material | Pkg |
 (A) | (F) | (U) | (H) | | Style |

100u 80p 10 Si | TO-18 |
 1.5m 800f 5.0 100p Ge | PILLC |

Sheet1

5.0m 85p 0.7 1.0n Ge | TO-18 |
 10m 9.0p 1.7 1.5n Ge | AXIAL |
 f | | Frequency | Tang | Video | Operating | |
 Test | Band | Range | Sens | Impedence | Temp. | Pkg |
 (Hz) | | Min Hz Max | -dbm | Min Max | Range(°C) | Style |

3.0G S 2.0G 4.0G 53 1.0k 2.0k 125 | AXIAL |
 7.7G S-X 3.0G 12G 40 4.5k 18k 150 | DO-37 |
 10G D-J 1.0G 15G 55 1.2k 1.6k 150 | DO-35 |
 24G K 18G 26G 57 4.5k 18k 150 | PILLC |
 f | | Frequency | N.F. | IF | Operating | |
 Test | Band | Range | Max | Impedence | Temp. | Pkg |
 (Hz) | | Min Hz Max | (dB) | Min (Û) Max | Range(°C) | Style |

2.0G E-F 2.0G 4.0G 6.0 250 400 200 | DO-34 |
 3.0G S 2.0G 4.0G 7.0 350 150 | AXIAL |
 35G Ka 10M 2.0G 5.0 100 300 100 | FLNGE |
 70G W 50G 75G 17.3 250 500 | PIN |
 Mat. | Description | Pkg |
 | | Style |

Si Breakover Diode;VBR 1.3kV,IF300mA | SIP |
 Si Surge Suppres. VB30V Min at 10uA | PILL |
 Si Surge Suppres. VR 400v/5mA | AXIAL |
 Si Surge Suppres. VRSO 29V VCLMP 44V | DO-13 |
 | | IT | | IGT | VGT | | | Operating | |
 VDRM | VRRM | Max | ITSM | Max | Max | IDRM | tgt | Temp. | Pkg |
 (V) | (V) | (A) | (A) | (A) | (V) | (A) | (s) | Range(°C) | Style |

200 200 51 980 150m 2.5 10m 60u -45 - 125 | TO240 |
 400 400 20 400 50m 3.0 4.0m -45 - 125 | MOD |
 600 600 12 375 60m 2.0 25 -45 - 125 | MOD |
 1.0k 1.0k 40 600 160m 3.0 80 40u -45 - 125 | TO240 |
 | IT | | IGT | VGT | dv/dt | tg | Operating | |
 VDRM | Max | ITSM | Max | IDRM | Max | | Max | Temp. | Pkg |
 (V) | (A) | (A) | (A) | (A) | (V) | V/us | (s) | Range(°C) | Style |

25 80 1.2k 100m 5.0m 3.0 200 100u -45 - 125 | TO-65 |
 30 5.0 30 200u 100u 0.8 8.0 40u -40 - 110 | TO202 |
 100 35 600 80m 3.0m 3.0 200 30u -60 - 110 | TO-48 |
 300 63 1.0k 150m 12m 3.0 200 10u -45 - 125 | STR14 |
 Output | Out- | Out. | Out- | In- | Relay Size | Operating |
 Ratings | put | Chan | put | put | L x W x H | Temp. |
 (V) (A) | Type | nels | Ckts | Type | (mm) | Range(°C) |

120 5 AC 1 3 DC 35 20 22 -25 - 75 |
 220 10 AC 1 2 DC 35 20 22 -40 - 80 |
 380 45 AC 1 2 AC 57 44 24 -40 - 100 |

Sheet1

480 90 AC 1 2 DC 57 44 27 -30 - 80 |
 |IT| |IGT|VGT| |dv/dt|tgt|Operating|
 VDRM|Max|ITSM|Max|Max|IDRM| |Typ.|Temp.|Pkg|
 (V)|(A)|(A)|(A)|(V)|(A)|V/us|(s)|Range(°C)|Style|

50 8.0 100 25m 2.5 2.0m 5.0 2.5u -40 - 100|TO220|
 100 2.5 25 10m 2.2 750u 10 1.8u -40 - 100|TO202|
 600 8.0 100 25m 2.5 2.0m 60 1.6u -40 - 125|TO220|
 1.6k 55 400 200m 2.5 10m 50 50u 125|STFM8|
 Switching|Pulse|Is|VT|Operating|
 Voltage|ITRM@Width|Max|Max@IT|Temp.|Pkg|
 Min Max|(A)|(s)|(A)|(V)|(A)|Range(°C)|Style|

24 16 1.0 1.0m 125u 1.2 70m -40 - 70|DO-7|
 29 21 10 10u 125u 1.2 100m -60 - 155|AXIAL|
 110 90 10 10u 125u 1.2 100m -40 - 125|DO-5|
 800 1.0k 5.0m 40 1.0k -40 - 125|DO-5|
 PD|Intrinsic|IP|IV|Interbase|Operating|
 Max|StandoffRatio|Max|Max|Resistance|Temp.|Pkg|
 (W)|Min Max|(A)|(A)|Min Max|Range(°C)|Style|

250m 0.66 0.80 12u 4m 4.7k 9.1k -65 - 150|TO-72|
 300m 0.55 0.82 2u 2m 4.0k 12k -65 - 150|TO-92|
 400m 0.70 0.85 20u 4m 4.7k 9.1k -65 - 150|TO-5|
 450m 0.51 0.62 6u 8m 4.7k 6.8k -65 - 140|TO-5|
 PD|VGKF|IT|ITRM|Pulse|IGAO|VT Max|Operating|
 Max|Max|Max|Max@Width|Max|@10Vs|Temp.|Pkg|
 (W)|(V)|(A)|(A)|(s)|(A)|Test|Range(°C)|Style|

150m 40 100m 2.0 10u 10n 600m -50 - 100|TO236|
 300m 40 150m 2.0 10u 10n 1.6 -50 - 100|TO226|
 400m 40 50m 8.0 10n 600m -55 - 125|TO-18|
 400m 40 300m 8.0 10n 600m -55 - 125|TO-18|
 |IT| |IGT|VGT| | |Operating|
 VDRM|Max|ITSM|Max|Max|IDRM|tgt|Temp.|Pkg|
 (V)|(A)|(A)|(A)|(V)|(A)|(s)|Range(°C)|Style|

600 42 500 400m 1.5 1.0m 2.0u -40 - 125|FBASE|
 1.0k 15 100 300m 1.5 5.0m 300p 125|TO238|
 1.8k 230 3.5k 1.5 1.0 50m 1.5u -40 - 125|DISC|
 4.5k 235 4.0k 1.5 1.5 80m 10u -40 - 125|DISC|
 Char.|Number|IV| | |M|Operating|
 Height|of|Min@IF|Color|Ap|U|Temp.|Pkg|
 (mm)|Chars.|(cd)|(A)| |(m)|X|Range(°C)|Style|

3 9 9.0u 500u Red 655n CC -25 - 85|EDGEH|
 6 4 250u 10m Red 700n CA -25 - 85|DIP|
 14 2 1.3m 10m Red 695n CA -40 - 85|DIP|
 46 4 1.0m 10m Red 700n CC -20 - 65|1EDGE|

Sheet1

Char. | No. | | | Viewing | Drive | Operating | |
 Height | of | Mode | Type | Area WxH | Volt | Temp. | Pkg |
 (mm) | Char | | | (mm) | Max | Range(°C) | Style |

7 8 Reflec FE 63 10 15 -40 - 80 | 2EDGE |
 7 16 Reflec FE 100 12 3.3 0 - 40 | 2EDGE |
 9 8 Transm FE 64 13 1.9 -10 - 85 | 2EDGE |
 76 1 Reflec FE 48 81 15 -25 - 85 | DIP |

Char | Line | Char. | | Char- | | |
 Per | Per | Height | Font | actor | Type | Color |
 Line | Disp | (mm) | | Set | | |

8 1 10.8 5x 7+C ASCII LCD DKonLT |
 16 2 10.6 5x 7+C JIS Plasma Orange |
 24 1 7.9 5x10+C JIS LCD DKonLT |
 40 1 4.0 5x 7 ASCII LED Red |

No.Of | | IV | VF | | Operating | |
 Elem- | Color | Min at IF | Max @ IF | Featur | Temp. | Pkg |
 ents | | (cd) (A) | (V) (A) | | Range(°C) | Style |

1 Green 1.0m 10m 3.0 20m 5x7mm -55 - 100 | LED-6 |
 2 Red 400u 20m 2.8 20m Diffus -40 - 85 | BAR-2 |
 8 Orange 6.0m 20m 2.6 20m XYstak -40 - 85 | BAR-2 |
 24 Red 34m 20m 2.4 20m T1-3/4 -55 - 100 | BAR-1 |

| \ | t | Beam | Spectral | | Operating | |
 Po at IF | \p | Resp | Angle | BW | Mat. | Temp. | Pkg |
 (W) (A) | (m) | (s) | | (m) | | Range(°C) | Style |

10u 0.1 820n 20n 15 35n GaAl -55 - 125 | CAN47 |
 400u 50m 930n 700n 18 50n GaAs -60 - 125 | DO-31 |
 20m 0.1 940n 14 50n GaAl -40 - 100 | CAN47 |
 100 40 905n 22 10n | MOD |

| \ | t | Beam | | Spectrl | Operating | |
 Po @ IF | \p | Resp | Angle | Mat. | BW | Temp. | Pkg |
 (W) (A) | (m) | (s) | | (m) | Range(°C) | Style |

1.0m 150m 850n 100p 56 GaAl 2.5n 0 - 60 | STUDC |
 20m 140m 840n 500p 35 GaAl 2.0n -55 - 85 | LSR-1 |
 20 100 904n 1.0n 9.0 GaAs 3.5n -55 - 75 | STUD |
 1.0k 40 904n 500p GaAs 3.5n -195 - 70 | STUD |

| Lens | Lens | IV @ | Beam | Lens | Operating | |
 Color | Diam | Height | Min IF | Angl | Styl | Temp. | Pkg |
 | (mm) | (mm) | (cd) (A) | | | Range(°C) | Style |

Blue 5.0 8.8 6.0m 20m 16 6 -55 - 100 | LED2B |
 Green 1.8 2.9 1.0m 20m 120 1 -40 - 85 | LED9C |
 Orange 2.8 5.1 24m 20m 30 6 -55 - 100 | LED2B |
 Red 2.9 4.5 4.0m 10m 22 6 -55 - 100 | LED2B |

| Dimensions | IV | Beam | Lens | Operating | |

Sheet1

Color | A x B x C | Min @ IF | Angle | Styl | Temp. | Pkg |
 | (mm) | (cd) (A) | | | Range(°C) | Style |

Green 5.0 2.5 8.6 1.0m 10m 70 1 -40 - 85 | LED1A |
 Orange 5.0 2.5 8.6 1.0m 10m 50 1 -55 - 100 | LED1A |
 Red 5.0 2.5 9.0 3.0m 20m 120 1 -40 - 85 | LED1A |
 Yellow 5.0 2.5 9.0 500u 10m 50 1 100 | LED1A |
 Pixels | Pixel Size | Active Area | VCC | Operating |
 H x W | H X W | H x W | Nom. | Temp. | Pkg |
 | (m) | (mm) | (V) | Range(°C) | Style |

1 128 12.7u 12u 12.7u 1.63m 16 -25 - 70 | DIP |
 1 1728 15u 25u 15u 43.2m -16 -25 - 85 | DIP |
 1 4096 7.0u 5.0u 7.0u 30m 12 -25 - 55 | DIP |
 1 15k 20u 62u 250u 305m 12 0 - 70 | SIP |
 Nominal | Resp | Out- | Vout | I | | Operating | |
 Gap | Time | put | Max | Out @ IF | Chan. | Temp. | Pkg |
 (mm) | (s) | Type | (V) | (A) (A) | | Range(°C) | Style |

1.52m 50n TR 5.0 4.9m 35m 1 0 - 70 | GAP1C |
 2.03m 5.0u TR 30 100u 20m 1 -55 - 155 | GAP1A |
 5.08m 6.0u TR 30 500u 20m 1 -25 - 85 | GAP1B |
 9.52m 70n ST 100m 20m 1 -40 - 70 | GAP1A |
 R | \ | V | PD | R | | No. | Operating | |
 Light @ EV | \p | Max | MAX | Dark | Mat. | El. | Temp. | Pkg |
 (Ohm) (fc) | (m) | (V) | (W) | Nom. | | | Range(°C) | Style |

75 100 710n 200 500m 10M CdSe 1 -50 - 75 | CAN12 |
 390 100 720n 80 200m 100M CdSe 1 -60 - 65 | TO-5 |
 2.7k 2.0 615n 100 125m 540k CdS 2 -50 - 75 | CAN8 |
 1.4M 2.0 550n 300 50m 200M CdS 1 -15 - 65 | CAN4 |
 Re \ | ID | t | Spectral | | VR | Operating | |
 Min @ \ | Max | Resp | Range | CT | Max | Temp. | Pkg |
 (A/W) (m) | (A) | (s) | Min m Max | (F) | (V) | Range(°C) | Style |

1.8n 900n 10n 2.0n 800n 1.1u 11p 30 -40 - 80 | LED4B |
 300n 850n 1.0n 500p 620n 920n 2.5p 50 -50 - 125 | TO206 |
 400m 900n 500p 350p 400n 1.1u 1.0p 50 -60 - 80 | TO-46 |
 70 850n 1.0n 10n 600n 1.1u 1.5p 50 -60 - 150 | TO-18 |
 IL | t | \ | ID | V | PD | Operating | |
 Min at Ee | Resp | \p | Max | (BR) | Max | Temp. | Pkg |
 (A) (W/cm2) | (s) | (m) | (A) | CEO | (W) | Range(°C) | Style |

400n 1.0m 3.0u 830n 200n 70 100m -55 - 100 | LED4B |
 100u 1.0k 3.2u 880n 100n 40 75m -30 - 125 | DO-31 |
 12m 100u 13u 850n 10n 30 250m -55 - 125 | TO-18 |
 6.0 500 5.0u 900n 50n 20 100m -25 - 85 | DOME |
 | Center | t | ID | | Operating | |
 Elements | Spacing | Resp | Max | Features | Temp. | Pkg |

H	x	W	(m)	(s)	(A)	Range(°C)	Style
1	2	90u	500n	200n	Differentl.	-40 - 85	DIP
1	4	36.3u	11n	50n	NEP 500p	0 - 70	TO-5
2	2	5.08m	3.0u	2.0n	4 Quadrant	-40 - 85	DIP
12	12	1.49m	550n	20n	2Dimensionl	-40 - 100	
Out-	Spectral Rng	Activ			Operating		
put	Min \	Max	Area	Detec-	Materi-	Temp.	Pkg
Chan	Λ (m)	(in2)	tivity	al	Range(°C)	Style	
1	1.0n	2.0	2.0	LiTaO	-55 - 85	TO-5	
1	300n	3.5u	55m	60G PbS		MOD	
1	1.0u	3.2u	1.5m	100G PbS	-20 - 65	CAN83	
2	8.0u	14u	3.9m	100G LiTaO	-10 - 50	TO-5	
	Channels	Outp	tResponse	Emi-	Rout	Operating	
VISO		V BR	On	Off	tter	On	Temp.
(V)	In	Out	(V)	(s)	Type	(Û)	Range(°C)
50	1	1	3.0	3.0m	8.0m LED	150 -20 - 70	AXIAL
500	1	1	100	35m	850m INCA	1.0k -50 - 60	CAN85
5.0k	1	1	400	5.0m	5.0m LED	1.0k -30 - 60	AXIAL
50k	1	1	120	6.0m	30m LED	1.0k -30 - 90	AXIAL
		V	t	PD	Operating		
VISO	Channels	(BR)	CTR	Resp	IC	Max	Temp.
(V)	CEO	(%)	(s)	(A)	(W)	Range(°C)	Style
500	1	30	10	6.0u	100m 250m	-55 - 100	DIP
1.5k	1	30	10	3.0u	100m 250m	-55 - 100	DIP
7.5k	1	400	10	5.0u	100m 250m	-55 - 100	DIP
50k	1	25	10	2.0u	200m 200m	-40 - 80	AXIAL
					Operating		
V	Bias	Description			Temp.	Pkg	
Sup	(A)				Range(°C)	Style	
-5	45m	Injection Laser	w/FO	Outp	Cbl	-30 - 50	CAN
5.0	25m	dc to 10Mb/s	NRZ,TTL	Input		0 - 70	MOD
2.0	4.5m	Compact Disc,	VF 1.9V,	ITH	40mA		CAN
2.5	22m	Dbl Heterostructure	SC Laser			0 - 60	CAN
		Clk	RAM		VCC	Operating	
Tech-	Rate	Features	Nom	Temp.	Pkg	Pinout	
nology	(Hz)	Bytes	(V)	Range(°C)	Style		
CMOS	5.0M	256	8	Register Banks	5.0	0 - 70	QFP
NMOS	6.0M	256	G.P.	Bus Type	5.0	-25 - 85	DIP
CMOS	17M	256	4	16-Bit Tmr/Cnt	5.0	-25 - 85	LLCC
NMOS	25M	256			5.0	0 - 70	DIP
		Clk		VCC	Operating		
Tech-	uP	Rate	Nomenclature	Non	Temp.	Pkg	Pinout
nology	Family	(Hz)	(V)	Range(°C)	Style		

CMOS	8085/8	10M Winchester Ctlr	5.0	0 - 70	DIP	44-11		
NMOS	8085	2.0M Keyboard Contlr	5.0	0 - 70	DIP	40-142		
NMOS	6800	1.0M CRT Controller	5.0	-25 - 85	DIP	40-196		
BPLR	2650	25M Light Pen Cntlr	5.0	-25 - 85	LDCC	44-88		
		uP	Clk	Addr	V	Operating		
Tech-	Fam-	Rate	Range	Nomenclature	C	Temp.	Pkg	Pinout
	ily	(Hz)	Bytes	C	Range(°C)	Style		

CMOS	68000	16M 4.0G Paged MMU	5	0 - 70	DIP	32-999		
CMOS	29000	25M 4.0G 8k Cache Unit	5	0 - 70	PGA	48-777		
MOS	68000	1.0M BMAC	5	0 - 70	PGA	84-888		
CMOS	32000	24M 4.0G MMU	5	0 - 70	PGA	181-2		
		uP	Clk		V	Operating		
Tech-	Fam-	Rate		Nomenclature	C	Temp.	Pkg	Pinout
nology	ily	(Hz)		C	Range(°C)	Style		

CMOS	29000	33M 16-Bit uP Slice	5	0 - 70	DIP	44-17	
CMOS	R3000	16M RISC FP Acceleratr	5	0 - 70	LDCC	84-4	
CMOS	5800	32.k Real-Time Clock	5	-25 - 85	DIP	16-67	
MOS	32000	25M DSP, 2k ROM, 4k RAM	5	0 - 70	DIP	40-155	
		Config	ta	Out-	Vcc	Operating	
Tech-	Words	Max	put	Features	Nom	Temp.	Pkg
nology	x Bits	(s)	Type	(v)	Range(°C)	Style	Pinout

CMOS	32kx8	250n TS I Stdby	100uA	5.0	-55 - 125	DIP	28-90
CMOS	32kx8	300n TS Page Size	64B	5.0	-55 - 125	LLCC	32-33
CMOS	128kx8	260n TS 10 Year Reten	5.0	0 - 70	DIMM	32-92	
		Config	ta	Out-	Vcc	Operating	
Tech-	Words	Max	put	Features	Nom	Temp.	Pkg
nology	x Bits	(s)	Type	(v)	Range(°C)	Style	Pinout

CMOS	8kx8	40n TS Auto Pwr Down	5.0	0 - 70	DIP	24-123	
NMOS	16kx8	100n TS TTL Compatibl	5.0	0 - 70	DIP	28-86	
CMOS	16kx8	125n TS Icc 20mA Max	5.0	0 - 70	DIP	28-198	
CMOS	128kx8	150n TS TTL Compatibl	5.0	-10 - 70	DIP	32-55	
		Config	ta	fClk	Vcc	Operating	
Tech-	Words	Max	Max	Features	Nom	Temp.	Pkg
nology	x Bits	(s)	(Hz)	(v)	Range(°C)	Style	Pinout

BCMS	64 x 4	15n 40M TTL Compatible	5.0	0 - 70	DIP	16-53	
TTL	64 x 4	55n 15M Expandable	5.0	0 - 70	FP	16-402	
CMOS	2k x 9	50n 15M 40MHz Ser. I/O	5.0	0 - 70	LDCC	44-15	
CMOS	4k x 9	65n 12M 33MHz Ser. I/O	5.0	0 - 70	DIP	40-56	
		Config	ta		Vcc	Operating	
Tech-	Words	Max	VPP	Features	Nom	Temp.	Pkg
nology	x Bits	(s)	(V)	(v)	Range(°C)	Style	Pinout

CMOS	16kx8	120n 12.5 Pwr Down Mode	5.0	0 - 70	DIP	28-52
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Sheet1

NMOS	16kx8	200n	12.5	Power Standby	5.0	0 - 70	SO	28-52
MOS	64kx8	200n	12.5	VCC +/-5%	5.0	0 - 70	LDCC	32-99
CMOS	256kx16	250n	12.5	Also 512kx8	5.0	-10 - 70	DIP	40-37
	Config	ta	Out-		Vcc	Operating		
Tech-	Words	Max	put	Features	Nom	Temp.	Pkg	
nology	x Bits	(s)	Type		(v)	Range(°C)	Style	Pinout

CMOS	128kx8	150n	TS	100mW Active	5.0	0 - 70	FP	64-1
CMOS	256kx8	200n	TS	100mW Active	5.0	-40 - 85	DIP	32-62
CMOS	256kx8	250n	TS	TTL Compatible	5.0	0 - 70	DIP	32-62