

AUTOMOTIVE

RECOMMENDED PRODUCTS FROM SGS-THOMSON

SPECIAL FUNCTIONS

Type Number	Description
L4620	Liquid Level Alarm
L9610C/11C	PWM Powermos Controller
L9686	Automotive Indicator
L9700	Hex Precision Limiter
L9703	Octal Ground Contact Monitoring Circuit
L9704	Octal Supply Contact Monitoring Circuit

PREAMPLIFIERS AND AUDIO PROCESSORS

Type Number	Description
TDA2320A	Stereo Preamplifier
TDA3420	Dual Very Low Noise Preamplifier
TDA7300	Digital Controlled Stereo Audio Processor
TDA7302	Digital Controlled Stereo Audio Processor
TDA7306	Digital Controlled Stereo Audio Processor

IGNITION CONTROL

L482/1	Hall Effect Pickup Ignition Controller
L484/1	Magnetic Pickup Ignition Controller
L497	Hall Effect Pickup Ignition Controller
STGP10N50A	Insulated Gate Bipolar Transistor

SEE MEMORY PRODUCTS SELECTOR FOR RECOMMENDED MEMORIES

AUTOMOTIVE	
A	OTP Memory - 5V range
G	Flash Memory - Dual supply 5V/12V
I	Flash Memory - Dual supply 5V only
L	SPI bus - 2 Mhz

FUEL INJECTION

Type Number	Description
L584	Multifunction Injection Interface

MOTOR CONTROLLERS

Type Number	Description
L272	Dual Power Operational Amplifier
L2720/2/4	Low Drop Dual Power Operational Amplifier
TDA1151	Motor Speed Regulator
TDA1154	Speed Regulator for DC Motors
TDA7275A	Motor Speed Regulator
L9907	Motor Bridge Driver for Headlight Adjustment
L9930	Dual Full Bridge Driver for DC motors (e.g. Idle Speed)
L9943	Stepper Motor Driver (e.g. Idle Speed Control)
L9947S	Quad Half Bridges + 1HSD (e.g. Mirror Control)
L9997	Motor Bridge Driver (e.g. Mirror control, Climatization)

DISPLAYS

Type Number	Description
M5450/1	Led Display Driver
M5480	Led Display Driver
M5481	Led Display Driver
M5482	Led Display Driver
M8438A	Serial Input LCD Driver
ULN2001A to 2004A	Seven Darlington Array

ABS SYSTEM

Type	Function
B82 Z	Protection Device (Darlington + Zener)

PROTECTION DEVICES

Type	Function
BZW04... BZW06... P6KE... 1.5 KE... BZW50...	Electronic modules and dashboard circuits protection
SM4T SM6T SM15T	SMD-Transil
LDP24/AS/M	Load Dump
RB008-40T RB040-40T/M	Reverse Battery Protection Reverse Battery Protection and load Dump. Protection.

OPERATIONAL AMPLIFIERS / TIMERS

Type	Function
LM2901 LM2902 LM2903 LM2904 TS27X TS37X TS393 TS339 TS55X	Quad Comparator Quad Op-Amp Dual Comparator Dual Op-Amp CMOS Op-Amps CMOS Comparators CMOS Comparators
TS3V902 TS3V912 TS3V904 TS3V914	CMOS Timers Dual Rail to Rail Op. Amp. with Stand By Dual Rail to Rail Op. Amps. Quad Rail to Rail Op. Amp. with Stand By Quad Rail to Rail Op. Amps.

Additional products: see next page

APPLICATION COMPASS



AUTOMOTIVE

RECOMMENDED PRODUCTS FROM SGS-THOMSON

REGULATORS, LAMPS/ SOLENOID/DC MOTOR DRIVERS, DASHBOARDS

Type	Function
BUZ10 BUZ11 BUZ11A BUZ11FI BUZ71 BUZ71FI IRFZ20 STP60N06/-16 STP65N06/FI STP55N06L/FI STP53N06 STP50N06/L/FI STP36N06/L/FI/LFI STP30N06/FI STK23N06L STP32N06L/FI STK22N06 STP25N06/FI STD17N06/L STK18N06/L STP20N06/FI STP21N06L/FI STK14N06 STP15N06/FI STK12N06L STD12N06/L STK3055E STP15N06L/FI	Discrete Power Mosfet

ELECTRONIC IGNITIONS

Type	Function
BU941Z/P/PFI/T/TFI BU911 SGS911 BU912 BU931/P/PFI/SM/T/TFI BU941 BU900DT	Darlingtons
VB020 VB024 VB027 VB027SP VB921ZV	Intelligent Power
STGP10N50AL	IGBT

IGNITION

Type	Function
L484	Magnetic Pickup Ignition Controller
L497	Hall-Effect Pickup Ignition Controller

LIGHTING

Type	Function
L9686	Blinker
L9687	Blinker with Very Low Quiescent Current
L9830	Lamp Dimmer

POWER SUPPLY

Type	Function
L4922	5V/1A V. Reg with Reset
L4923	5V/500mA V.Reg with Reset and Inhibit
L4925	5V/500mA V.Reg with Reset
L4925	5V/500mA V.Reg with Reset in Power SO-20
L4936N/37N/38N	Dual 5V (Adju.)/500mA, 5V/50mA Multif. V.Reg
L4936EH/L4938ED	Dual 5V (Adju.)/400mA, 5V/100mA with Programmable Reset
L4939	Dual 5V/5mA-80mA V.Reg with Reset
L4945	5V/500mA V.Reg
L4947/L4947R	5V/500mA V.Reg with Reset
L4947PD	5V/500mA V.Reg with Reset in Power SO-20 package
L4949ND	5V/100mA Multifunction V.Reg with Reset
L4942PD	5V/1.25A PWM Current Mode Reg. with Internal Power Transistor, 12V/100mA (EEPROM Progr.)
L4935	Triple 5V/350mA-100mA-7.5mA V.Reg with Inhibit and Reset

INTERFACES

Type	Function
L9637	ISO (9141) Interface
L9581	VAN Line Interface
L9705	Double Quad Contact Interface Circuit (4GND and 4 VBAT)

Additional products: see next page

AUTOMOTIVE

RECOMMENDED PRODUCTS FROM SGS-THOMSON

SINGLE CHIP CONTROLLERS

Type	Function
ST621X	2K ROM/EPROM, 8-bit MCU, A/D Converter
ST622X	4K ROM/EPROM, 8-bit MCU, A/D Converter
ST626X	4K ROM/EPROM, 8-bit MCU, EEPROM, AR Timer A/D Converter
ST624X	4/8K ROM/EPROM, 8-bit MCU, EEPROM, LCD segments drive
ST628X	8K ROM/EPROM, 8-bit MCU, EEPROM, LCD dot matrix drive
ST902X	12/16K ROM/EPROM, 8/16 bit MCU, SPI+SCI, 32/36 I/Os
ST903X	8/16K ROM/EPROM, 8/16 bit MCU, SPI+SCI, A/D converter
ST904X	16K ROM/EPROM, 8/16 bit MCU, EEPROM, SPI+SCI, A/D converter

MEMORIES

Type	Function
	available in 4. to 5.5V. or 2.5 to 5.5V cc specification
ST24C01	1Kbit, i2C Bus, PDIP8 + PS08
ST24C02A	2Kbit, i2C Bus, PDIP8 + PS08
ST24C04	4Kbit, i2C Bus, PDIP8 + PS08
ST24C08	8Kbit, i2C Bus, PDIP + PS0
ST93C06	256bit, Microwine, PDIP8 + PS08
ST93C46A	1Kbit, Microwine, PDIP9 + PS08
ST93CS46	1Kbit, Microwine, PDIP8 + PS08, write protect
ST93CS56	2Kbit, Microwine, PDIP8 + PS08 + PS014, write protect
M87C257	256K CMOS LATCHED EPROM
M27C256	256K CMOS EPROM
M27C512	512K CMOS EPROM
ST90E30	8K EPROM CMOS 8/16-bit MCU with ADC, SCI, 2 MFTs
ST90R30	ROMLESS version of ST9030
ST90R50	ROMLESS HCMOS 8/16-bit MCU with ADC, 2SCI, 3 MFTs

OUTPUT STAGE FOR VOLTAGE REGULATORS/ALTERNATORS

Type	Function
SGS112/BD336 SGS122/127 BD336 BDX53B/54B TIP131 TIP106 BDX53C/54C TIP102/107 TIP141/146 TIP142/147 BDW93B/94B BDW93C/94C SGSD100/D200 MJ11014/013	High Gain Bipolar Darlingtons

ALTERNATOR VOLTAGE REGULATOR

Type	Function
L585	Multifunction Car Alternator Voltage Regulator
L9480VB/L9444VB/L9448VB	Monofunction Car Alternator Voltage Regulator
L9463	Monofunction Alternator Regulator with Battery Sensing

Additional products: see next page



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RECOMMENDED PRODUCTS FROM SGS-THOMSON

VOLTAGE REGULATORS

Type	Function
LFxx	Low drop 0.5A
LExxA/C	Low drop 100mA
LK115Dxx	Low drop 100mA
L487	Very low drop
L2605	Low drop
L470	Very low drop
L4920	Adjustable
L4921	Adjustable
L387A	5V-0.4A Very Low Drop Regulator
L2605/85/10	0.5A Low Drop Voltage Regulators
L4805/85/92/10/12	0.4A Very Low Drop Voltage Regulators
L4901A	Dual 5V Regulator with Reset
L4902A	Dual 5V Regulator with Reset and Disable
L4904A	Dual 5V Regulator with Reset
L4916	Voltage Regulator Plus Filter
L4918	Voltage Regulator Plus Filter
L4920/21	Very Low Drop Adjustable Regulators
L4922	5V-1A Very Low Drop Regulator with Reset
L4923	5V-1A Very Low Drop Reg. with Reset and Inhibit
L4936/8	Dual Multifunction Voltage Regulators
L4937	Dual Multifunction Voltage Regulator
L4940V12	Very Low Drop Regulator
L4945	5V-0.5A Very Low Drop Regulator
L4947	5V-0.5A Very Low Drop Regulator with Reset
TL77 Series	Supply Voltage Supervisor
GSR412	Switch mode, Power supply module

ALTERNATOR REGULATORS

Type Number	Description
L585	Car Alternator Regulator
L9480VB	One Chip Car Alternator Regulator

MONOLITHIC POWER ACTUATORS

Type Number	Description
L9222	Quad Inverting Transistor Switch
L9305/C	Dual High Current Relay Drivers
L9307/9	Dual High Current Low Side Driver
L9308	Dual Low Side Driver
L9324	Window Lift Controller
L9350	High Side Driver
L9821	High Side Driver
L9822	Octal Serial Solenoid Driver
L9947	Multiple Half Bridge Driver
VN02N	High Side Driver
VN05N	High Side Driver
VN20N	High Side Driver
VB020	Electronic Ignition
L922D	Quad Inverting Transistor Switch
L9307/9	Dual High Current LSD
L9308	Dual LSD
L9351	1.5A High Side Driver
L9341H	Quad LSD + Serial Interface
L9820	1A High Side Driver
L9822EPD	Octal Serial Input LSD with DMOS outputs
L9824D	Octal Parallel Input LSD with DMOS outputs
L9377	Dual LSD with Diagnostic (e.g. ABS Valve Driver)
L9386	Dual LSD with Diagnostic (e.g. ABS Valve Driver)
L9338D	Dual LSD with Diagnostic (e.g. ABS Valve Driver)
L9363	Quad Parallel Medium Power LSD
L9839	Quad Injector Driver with Diagnostic Bidirectional Switch for Mirror Control

POWER AMPLIFIERS

Type Number	Description
TDA2003	10W Audio Amplifier
TDA2004A	10 + 10W Stereo Amplifier
TDA2005	20W Bridge Amplifier
TDA7240A	20W Bridge Amplifier
TDA7241BV	20W Bridge Amplifier
TDA7256	22W Bridge Amplifier
TDA7350	Bridge-Stereo Amplifier
TDA7360	Stereo/Bridge Amplifier with Clipping Detector
TDA7370	Quad Power Amplifier with Clipping Detector
TDA7374	2x22 Amplifier with Clipping Detector
TDA7362	2x11W Amplifier with Clipping Detector

LOW DROP REGULATORS

Type	Description
L4940Vxx	1.5A Series
L4941	5V 1A fixed
LFxx	0.5A Series
LExxA/C	100mA Series
LK115Dxx	100mA Series