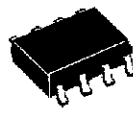


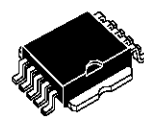
SIP3



DIL 8



SO8



PowerSO-10™

LINE CARD PROGRAMMABLE PROTECTION (RING RELAY & SLIC)

Type	$I_{LGL} @ V_{LG}$		$V_{ret} @ I_{LG}$		$V_{SWON} (1)$	$I_{PP} (1)$	I_{SWOFF}	Package
	max		max		max	max	min	
	(μA)	(V)	(V)	(mA)	(V)	(A)	(mA)	
◆ CLP200M	10	200	215	1	230	100	150	PSO-10

(1) At 10/1000 μs

◆ : New product

RING RELAY PROTECTION

Type (UL)	$I_{RM} @ V_{RM}$		$V_{BR} @ I_R (1)$		$V_{BO} @ I_{BO}$			$I_{PP} (1)$	I_H	Package
	max		max		max (mA)				min	
	(μA)	(V)	(V)	(mA)	(V)	min	max	(A)	(mA)	
THBT15011D	5	135	150	1	210	50	400	30	150	SO8
THBT20011D	5	180	200	1	290	-	400	30	150	
THBT27011D	5	240	270	1	380	50	400	30	150	
THBT15012D	5	135	150	1	210	50	400	30	150	DIL8
THBT20012D	5	180	200	1	290	-	400	30	150	
THBT27012D	5	240	270	1	380	50	400	30	150	
THBT200S	10	180	200	1	290	150	800	75	150	SIP3
◆ THBT200SD	5	180	200	1	290	50	400	75	150	

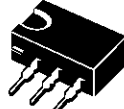
(1) At 10/1000 μs

◆ : New product

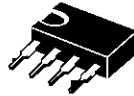
(UL): UL 497B Recognized (Protection components for communication circuits - File # 136224)



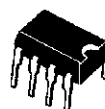
SMC



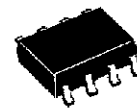
SIP3



SIP4



DIL 8



SO8

SLIC PROTECTION (FIXED BREAKDOWN VOLTAGE)

Type (UL)	$I_{RM} @ V_{RM}$		$V_{BR} @ I_R$		$V_{BO} @ I_{BO}$			I_{PP} (2)	I_H	Package
	max		min		max (mA)			max	min	
	(μA)	(V)	(V)	(mA)	(V)	min	max	(A)	(mA)	
THDT6511	10	56	65	1	85	50	500	30	150	SO8
THDT6512	10	56	65	1	85	50	500	30	150	DIL8
<u>THDT58S</u>	10	56	58	1	80	150	800	75	150	SIP3
THDT58S1	10	56	58	1	80	50	800	35	150	SIP3
<u>SMTHDT58</u> (1)	10	56	58	1	80	150	800	75	150	SMC
<u>SMTHDT80</u> (1)	10	68	80	1	120	150	800	75	150	SMC
<u>SMTHDT120</u> (1)	10	102	120	1	180	150	800	75	150	SMC

(1) Single function

(2) At 10/1000 μs

(UL): UL 497B Recognized (Protection components for communication circuits - File # 136224)

SLIC PROTECTION (PROGRAMMABLE BREAKDOWN VOLTAGE)

Type (UL)	Max operating voltage	$I_{RM} @ V_{RM}$ (1)		V_{DGL} (2)	I_{PP} (3)	I_H	Package
	between gate line	max		max	max	min	
	(V)	(μA)	(V)	(V)	(A)	(mA)	
♦ <u>LCP3121</u>	80	5	60	-	100	150	SO8
<u>LCP150S</u>	80	5	85	15	50	150	SIP4
<u>LCP1511D</u>	80	5	75	10	30	150	DIL8
<u>LCP1512D</u>	80	5	75	10	30	150	SO8

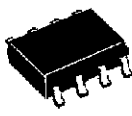
(1) $V_{gate/line} = -1 V$ (2) At 10/700 μs $I_{PP} = 30 A$ $V_{gate} = -48V$ (3) At 10/1000 μs

♦ : New product

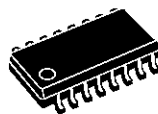
(UL): UL 497B Recognized (Protection components for communication circuits - File # 136224)



DIL 8



SO8



SO16

TERMINAL PROTECTION

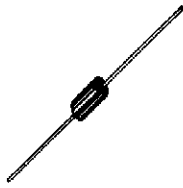
Type	$I_{RM} @ V_{RM}$		$V_{BR} @ I_R$ (1)		$V_{BO} @ I_{BO}$ (1)			I_{PP} (2)	I_H	Package
	max		min		max			max	min	
	(μA)	(V)	(V)	(mA)	(V)	min	max	(A)	(mA)	
L3100B	6 40	60 250	265	1	350	200	500	100	280	DIL8
L3100B1	6 40	60 250	255	1	350	200	500	100	210	DIL8
TPP25011(UL)	6	60	250	1	340	15	200	30	180	SO8
TPP25012(UL)	6	60	250	1	340	15	200	30	180	DIL8
♦ TSI62B1	5	62	-	-	90	50	400	30	150	SO8
♦ TSI180B1	5	180	-	-	250	50	400	30	150	SO8
♦ TSI200B1	5	200	-	-	290	50	400	30	150	SO8
♦ TSI290B1	5	265	-	-	380	-	800	30	150	SO8
TSI62B5	5	62	-	-	90	50	400	30	150	SO16
TSI120B5	5	120	-	-	180	50	400	30	150	SO16
TSI150B5	5	150	-	-	230	50	400	30	150	SO16
TSI180B5	5	180	-	-	250	50	400	30	150	SO16
TSI200B5	5	200	-	-	290	50	400	30	150	SO16
TSI270B5	5	270	-	-	380	50	400	30	150	SO16

(1) Without any gate reference - Gate open

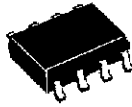
(2) At 10/1000 μs

♦ : New product

(UL): UL 497B Recognized (Protection components for communication circuits - File # 136224)



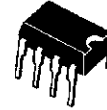
CB429



SO8



SMC



DIL 8

ISDN PROTECTION

Type (UL)	$I_{RM} @ V_{RM}$		$V_{BR} @ I_R$		$V_{BO} @ I_{BO}$			I_{PP} (1)	I_H	Package
	max		min		max			max	min	
	(μA)	(V)	(V)	(mA)	(V)	min	max	(A)	(mA)	
TPU58	10	56	58	1	80	150	800	75	150	CB429
TPU80	10	68	80	1	120	150	800	75	150	CB429
TPU120	10	102	120	1	180	150	800	75	150	CB429
SMTHDT58	10	56	58	1	80	150	800	75	150	SMC
SMTHDT80	10	68	80	1	120	150	800	75	150	SMC
SMTHDT120	10	102	120	1	180	150	800	75	150	SMC
TPI8011N	10	70	80	1	120	-	800	30	150	SO8
TPI8012N	10	70	80	1	120	-	800	30	150	DIL8
TPI12011N	10	105	120	1	180	-	800	30	150	SO8
TPI12012N	10	105	120	1	180	-	800	30	150	DIL8
♦ TPN3021	4	28	-	-	30	-	100	30	30	SO8

(1) At 10/1000 μs

♦ : New product

(UL): UL 497B Recognized (Protection components for communication circuits - File # 136224)