EVVOSEMI®

THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

Domestic Part Number	PXXXXSC
Overseas Part Number	PXXXXSC
Equivalent Part Number	PXXXXSC



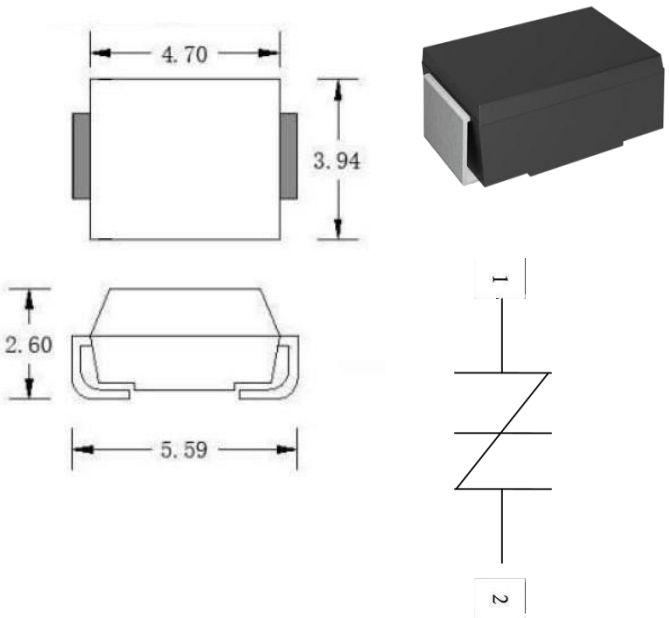
Description

PXXXXSC series thyristors are a type of semi-conduct component. They are designed in applications, modems, telephones, line cards, answering machines, FAX machines, SLICs, T1/E1, xDSL, PBXs and more.

Features

- For surface mounted applications to optimizeboard space
- Low profile package
- Bidirectional crowbar protection
- Low leakage current : I = 5uA max
- Low on-state voltage
- Low Capacitance
- Solid-state silicon technology
- Eliminates overvoltage caused byfastrising transients
- UL Certificate #E504113

Dimensions & Symbol（Unit:mmMax）



Mechanical Characteristics

Package: SMB/DO-214AA

- Case Material:“Green”MoldingCompound.
- ULFlammability ClassificationRating94V-0
- Standard Packaging: 12mm tape (EIASTD RS-481)
- Weight: 0.10g
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Applications

- TIA-968-A/B
- ITU K.20/21 Enhanced Level*
- ITU K.20/21 Basic Level*
- GR 1089 Inter-building*
- GR 1089 Intra-building
- IEC 61000-4-5 2nd edition
- YD/T 1082 YD/T 993 YD/T 950

Marking Information



Details marking code reference customer approval list

Ordering Information

Out line	Reel (pcs)	Per carton (pcs)	Reel diameters (mm)
Taping	2.5K	40K	330

Absolute Maximum Ratings (TA=25ºC, RH=45%-75%, unless otherwise noted)

Parameter	Symbol	Value	Unit
Storage temperature range	T_{stg}	-60 to +150	℃
Operating junction temperature range	T_j	-40 to +150	℃

Part Number Code

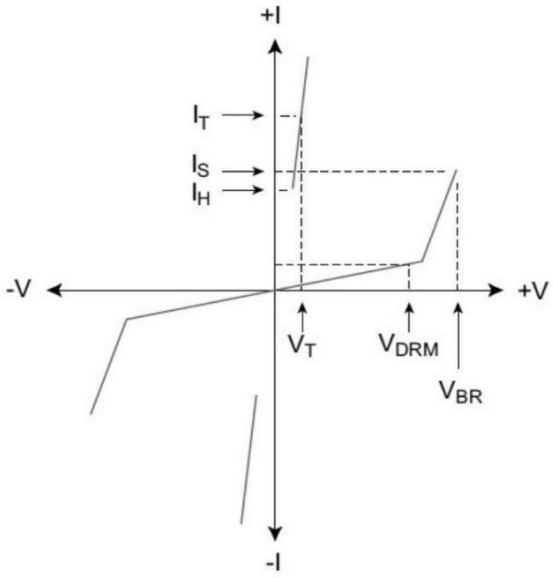
Series code: P SIDACtor → **P** **XXXX** **S** **C** ← Surge：10/700uS 40Ω 6KV

V_{DRM}

SMB

Electrical Parameters & V-I Curve

Symbol	Parameter
V_{DRM}	Peak off-state voltage
I_{DRM}	Off-state current
V_S	Switching voltage
I_S	Switching current
V_T	On-state voltage
I_T	On-state current
I_H	Holding current
C_O	Off-state capacitance



ElectricalCharacteristics(TA=25℃)

Type	V_{DRM}	I_{DRM}	V_S	I_S	V_T	I_T	C_O	I_H
	Min.	Max.	Max.	Max.	Max.		MAX.	MIN.
	V	μA	V	mA	V	A	pF	mA
P0080SC	6	5	25	800	4	2.2	100	20
P0300SC	25	5	40	800	4	2.2	100	50
P0640SC	58	5	77	800	4	2.2	100	100
P0720SC	65	5	88	800	4	2.2	100	100
P0900SC	75	5	98	800	4	2.2	90	100
P1100SC	90	5	130	800	4	2.2	90	100
P1300SC	120	5	160	800	4	2.2	90	100
P1500SC	140	5	180	800	4	2.2	85	100
P1800SC	170	5	220	800	4	2.2	85	100
P2000SC	180	5	220	800	4	2.2	85	100
P2300SC	190	5	260	800	4	2.2	80	100
P2600SC	220	5	300	800	4	2.2	80	100
P3100SC	275	5	350	800	4	2.2	65	100
P3500SC	320	5	400	800	4	2.2	65	100
P4000SC	360	5	460	800	4	2.2	45	100
P4500SC	420	5	540	800	4	2.2	45	100
P5000SC	500	5	600	800	4	2.2	45	100

Notes:

- *All measurements are made at an ambient temperature of 25℃. I_{PP} applies to -40℃ through +85℃ temperature range.*
- *Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias and is typical value.*

Ratings And V-I Characteristics Curves (TA=25ºC,unless otherwisenoted)

FIG.1: tr × td pulse waveform

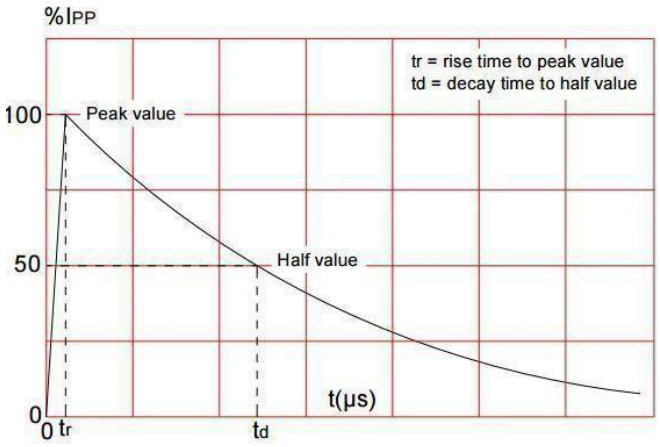


FIG.2: Reflow condition

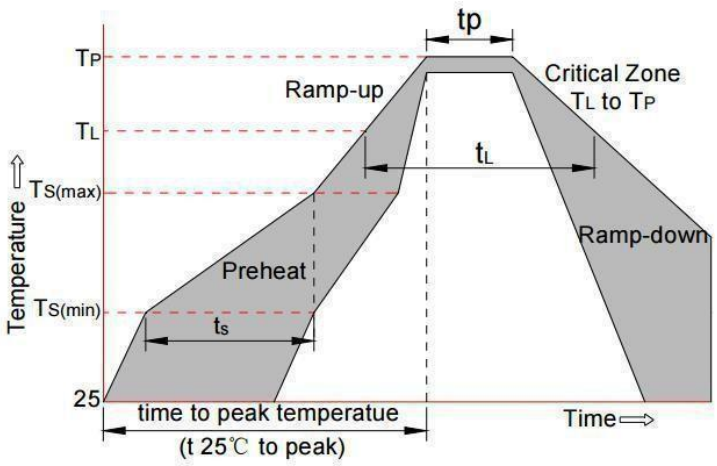


FIG.3: Normalized Vs change vs. junction temperature

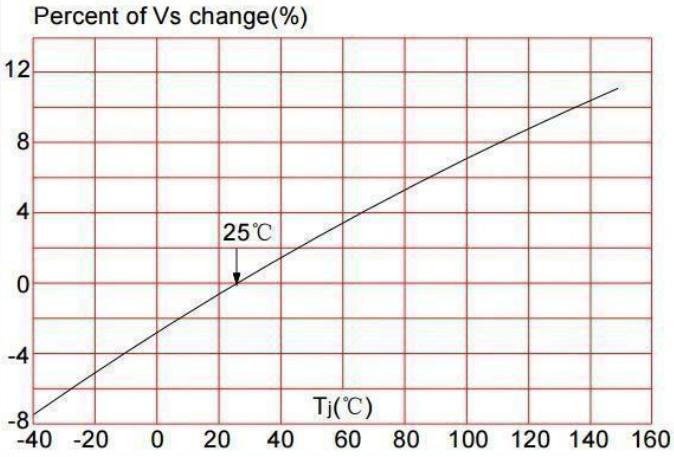
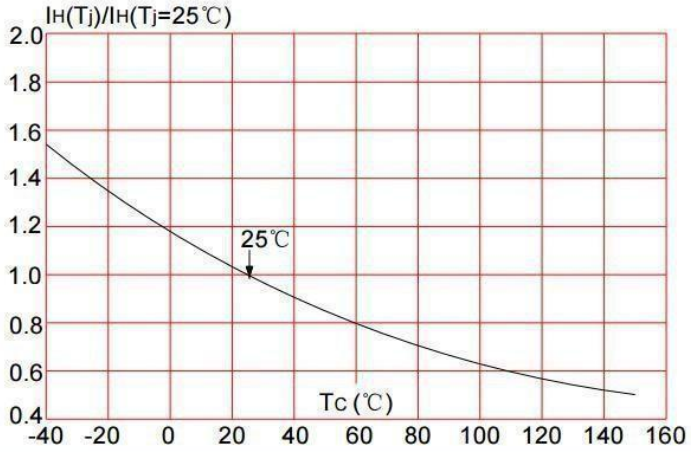
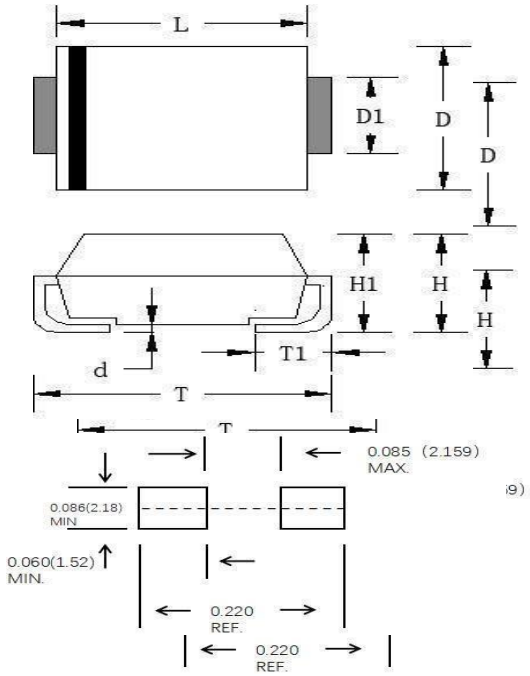


FIG.4: Normalized DC holding current vs. case temperature



Package MechanicalData



Ref.（mm）	Millimeters		Inches.	
	Min.	Max.	Min.	Max.
D	3.40	3.94	1.330	1.550
D1	1.90	2.10	0.074	0.083
L	4.22	4.70	0.166	0.185
T	5.21	5.59	0.205	0.220
T1	0.90	1.42	0.035	0.056
d	0	0.23	0	0.009
H	1.95	2.60	0.076	0.102
H1	2.00	2.34	0.078	0.092

Disclaimer

EVVOSEMI ("EVVO") reserves the right to make corrections, enhancements, improvements, and other changes to its products and services at any time, and to discontinue any product or service without notice.

EVVO warrants the performance of its hardware products to the specifications applicable at the time of sale in accordance with its standard warranty. Testing and other quality control techniques are used as deemed necessary by EVVO to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

Customers should obtain and confirm the latest product information and specifications before final design, purchase, or use. EVVO makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does EVVO assume any liability for application assistance or customer product design. EVVO does not warrant or accept any liability for products that are purchased or used for any unintended or unauthorized application.

EVVO products are not authorized for use as critical components in life support devices or systems without the express written approval of EVVOSEMI.

The EVVO logo and EVVOSEMI are trademarks of EVVOSEMI or its subsidiaries in relevant jurisdictions. EVVO reserves the right to make changes without further notice to any products herein.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

EVVOSEMI:

MMBT5401 SN74LVC1G08DBVR-EV GBJ3508 GBU406 MMBTA92 SMBJ5.0A SN74LVC1G02DBVR-EV TL431 KBL608 MJD122 USBLC6-4SC6-EV XL1509-5.0-EV TIP127 W01 2SA1695 2SC5196 TPD1E05U06DPYR-EV 1N4148WT MMBD7000L SG3525 SS210 KBPC1010 SMCJ36A SS36F TIP35C 2SC3264 DS18B20A20 P6SMB33A SS8550 1.5KE15A