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

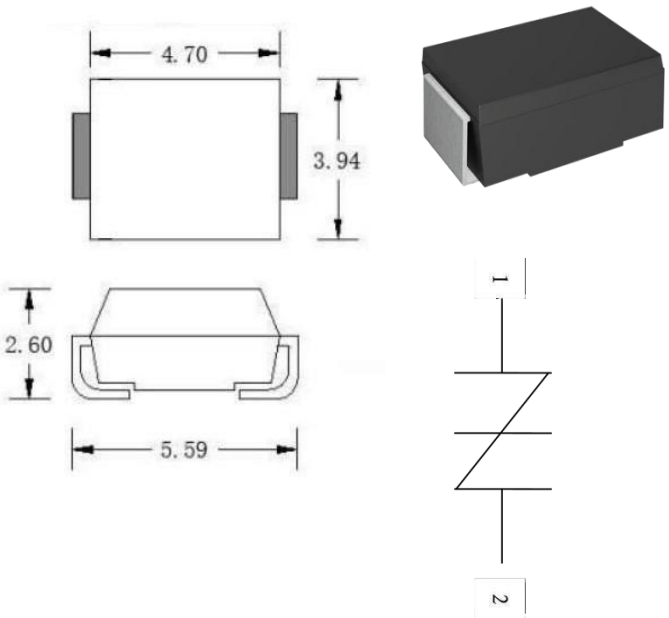
Description

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

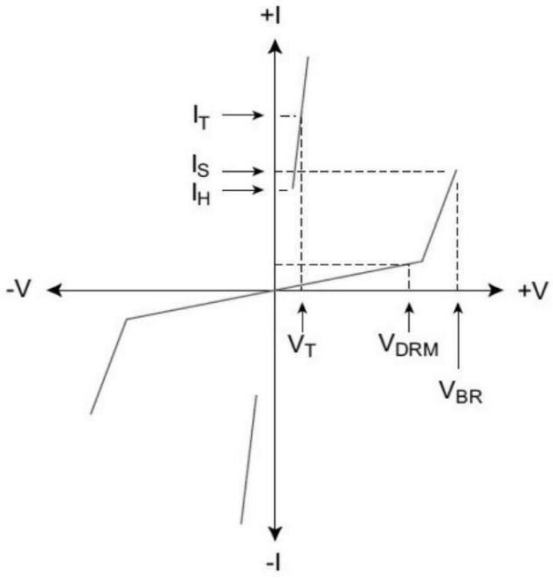
Series code: P SIDACtor → **P** **XXXX** **S** **C** ← Surge：10/700uS 40Ω 6KV

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

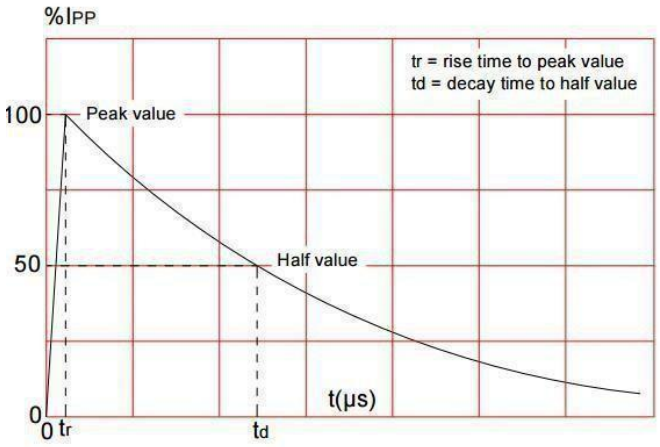


FIG.2: Reflow condition

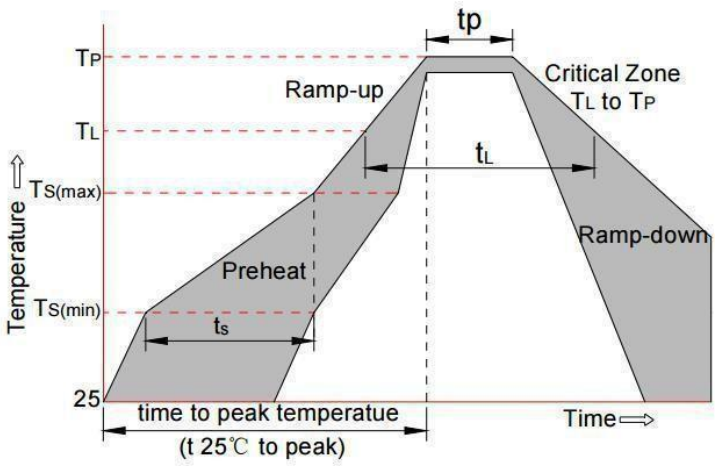


FIG.3: Normalized Vs change vs. junction temperature

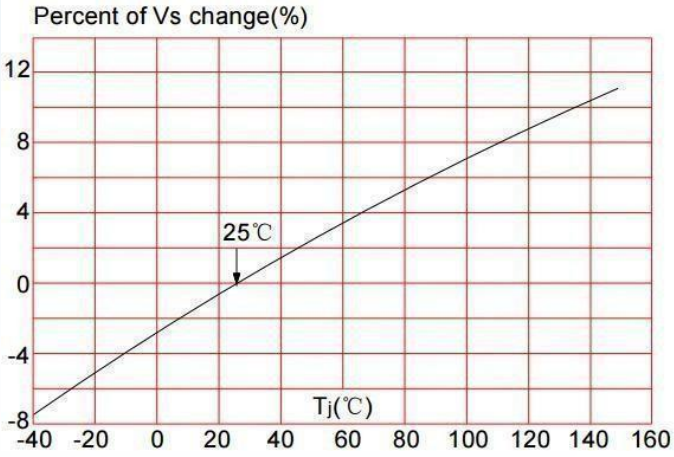
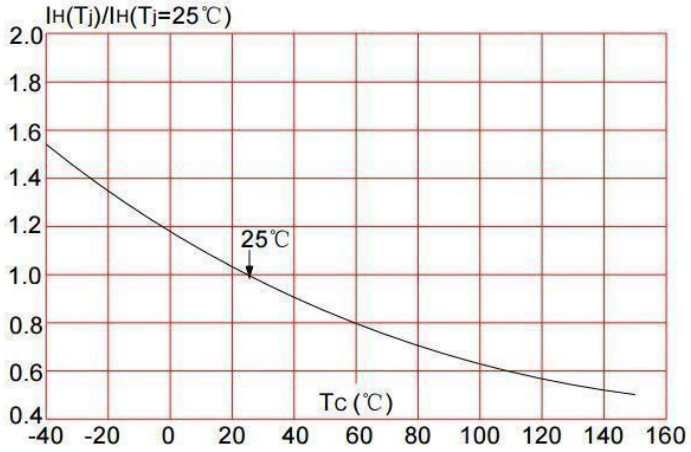
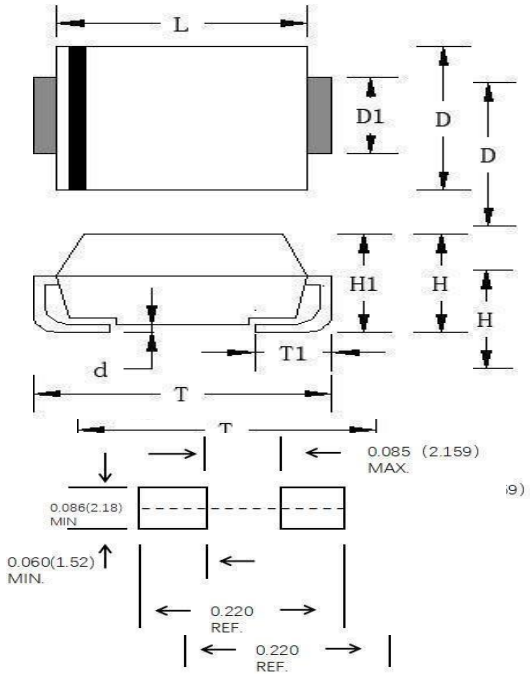


FIG.4: Normalized DC holding current vs. case temperature



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

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