SuperTSS –Thyristor Surge Suppresser

1. Features

- Excellent capability of absorbing transient surge
- Quick response to surge voltage (ns Level)
- Non degenerative
- Eliminates overvoltage caused by fast rising transients
- Bi-directional
- Rating Surge Voltage:4KV (10/700μs)

2. Application Information

- RS485/232/422

3. Ordering Information

Part Number	Package	Material	Packing	Quantity per reel	Flammability Rating	Reel Size
P0080SB-P4200SB	SMB	Halogen free	Tape & Reel	3,000 PCS	UL 94V-0	13 inches

Table-1 Ordering Information

4. Part Number and Electrical Parameter

Absolute maximum ratings measured at T_A= 25ºC RH = 45%-75% (unless otherwise noted).

Part Number	Marking Code	I_{DRM}@ V_{DRM}		V_S①@ I_S		V_T@ I_T		I_H		C_O②
		μA	V	V	mA	V	A	mA		pF
		MAX		MAX		MAX		MIN	MAX	TYP
P0080SB		5	6	25	800	4	2.2	10	150	60
P0300SB		5	25	40	800	4	2.2	50	150	55
P0640SB		5	58	77	800	4	2.2	125	350	55
P3100SB		5	275	350	800	4	2.2	120	350	45
P3500SB		5	320	400	800	4	2.2	120	350	35
P4200SB		5	408	480	800	4	2.2	0	50	35

Table-2 Part Number and Electrical Parameter

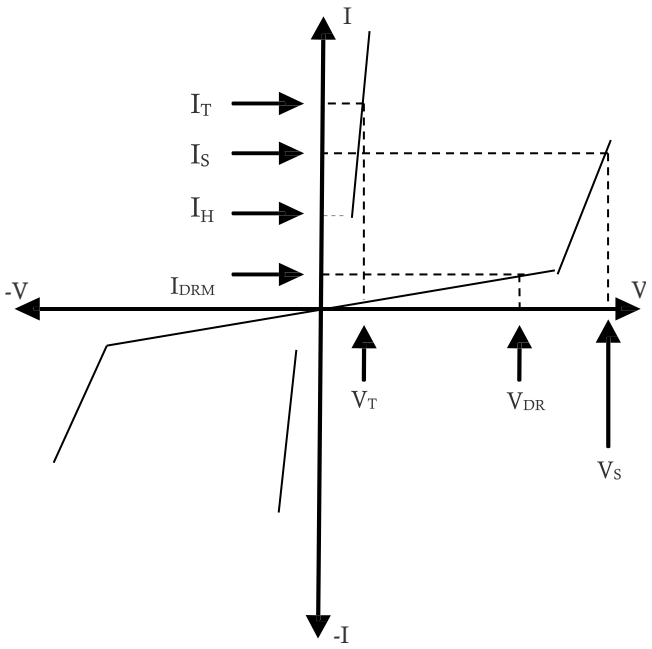
NOT:

① Vs is measured at 100KV/S

② Off-state Capacitance is measured at V_{DC}=2V, V_{RMS}=1V, f=1MHz

5. V-I Curve

Parameters	Definition
V_{DRM}	Peak Off-state Voltage
I_{DRM}	Off-state Current
V_S	Switching Voltage
I_S	Switching Current
I_H	Holding Current
V_T	On-state Voltage
I_T	On-state Current
C_O	Off-state Capacitance



6. Surge Ratings

Current Waveform	8/20μs	5/320μs*
Voltage Waveform	1.2/50μs	10/700μs*
Ipp	250A	100A

Table-3 Surge Ratings

-Peak pulse current rating (IPP) is repetitive and guaranteed for the life of the product;

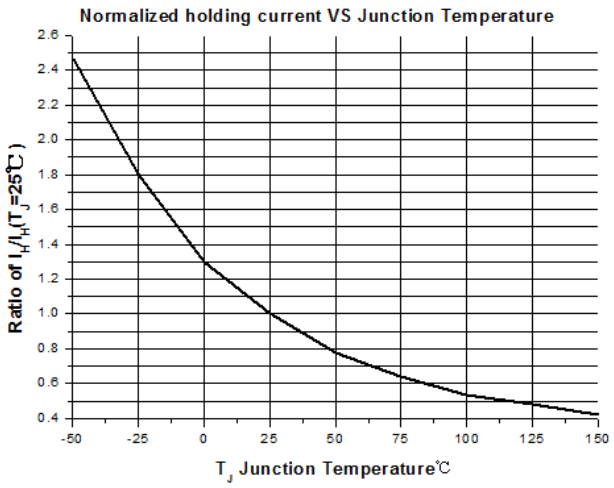
-Elecsuper only makes the test for 5/320μs@100A* (10/700μs@4KV), but for other IPP value derived from experience is just for reference only. Elecsuper will not take any obligation for these parameters, so before applying our parts, please make sure to verify the parameters listed in the above table.

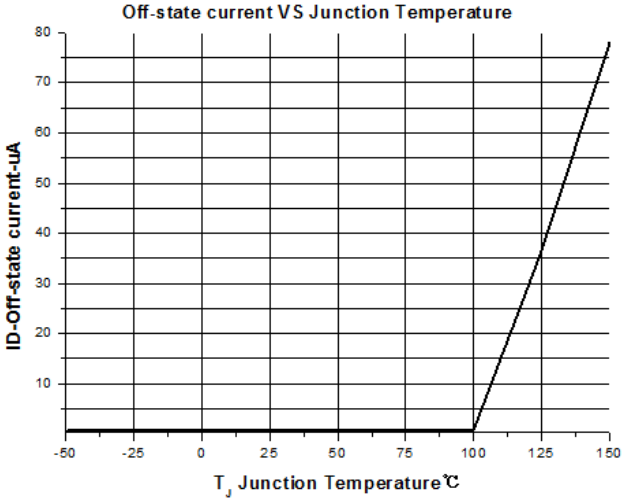
7. Thermal Considerations

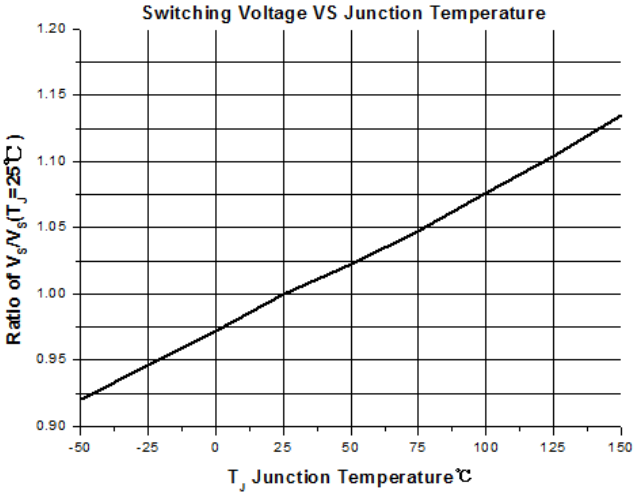
Symbol	Parameter	Value	Unit
T_J	Operating Junction Temperature Range	-40 to +150	˚C
T_S	Storage Temperature Range	-55 to +150	˚C

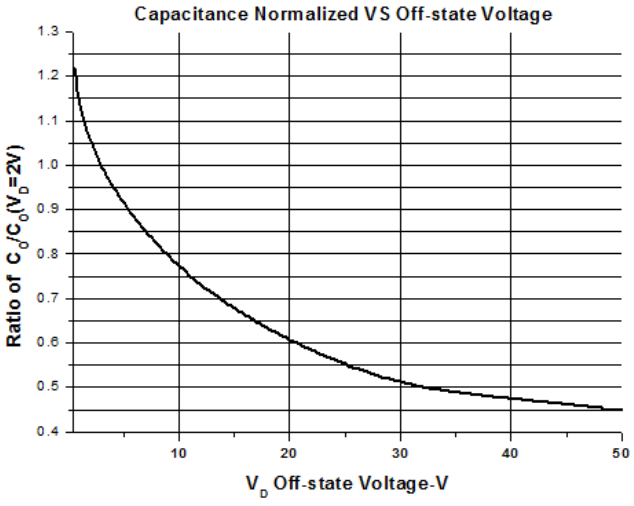
Table-4 Thermal Considerations

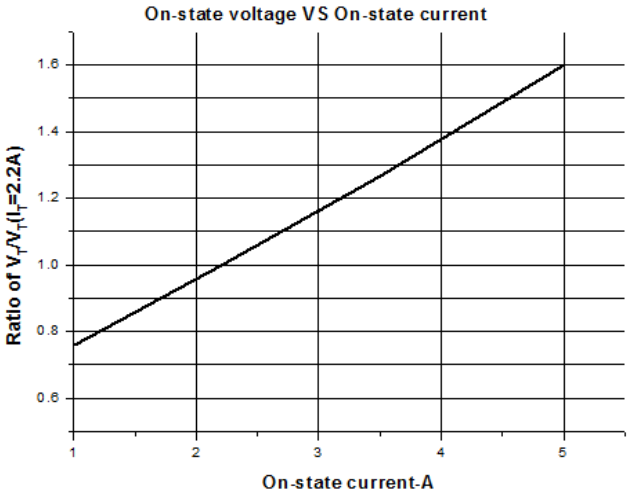
8. Typical Characteristics



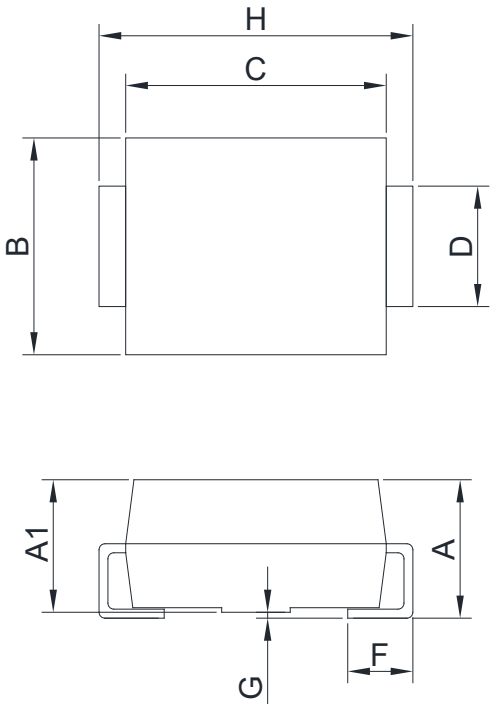








9. Dimension (SMB)



REF	Millimeters		REF	Millimeters	
	MIN	MAX		MIN	MAX
A	2.15	2.45	D	1.90	2.10
A1	2.10	2.30	F	0.90	1.30
B	3.40	3.80	G	0.00	0.20
C	4.25	4.65	H	5.10	5.50

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