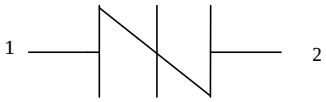
DESCRIPTION

TSS-SMA 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.

SMA

FEATURES

- ✧ Excellent capability of absorbing transient surge
- ✧ Quick response to surge voltage (ns Level)
- ✧ Eliminates overvoltage caused by fast rising transients
- ✧ Moisture sensitivity level: Level 1
- ✧ Weight 69 mg (approximate)
- ✧ Non degenerative



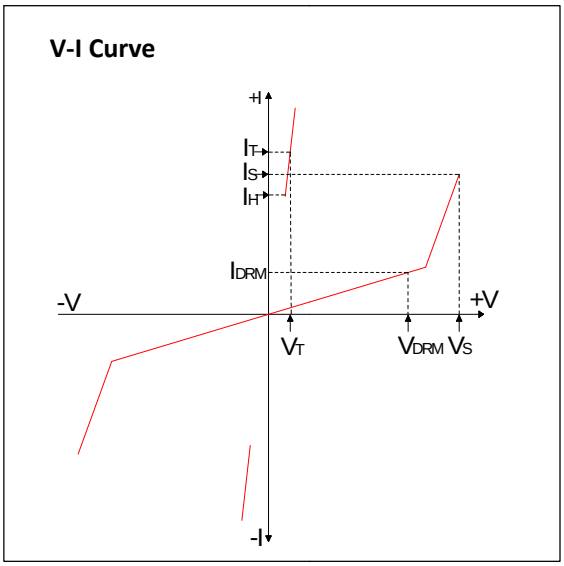
Symbol

ABSOLUTE MAXIMUM RATINGS (T_A=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	℃
Repetitive peak pulse current	I_{PP}	35	A

ELECTRICAL CHARACTERISTICS (T_A=25℃)

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



ELECTRICAL CHARACTERISTICS (T_A=25℃, continued)

Part Number	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	MIN	MAX	MAX	MAX	MAX	MIN	MAX
BEP0080TA	5	6	25	800	4	2.2	50	50
BEP0080TA-MC	5	6	25	800	4	2.2	20	13
BEP0150TA	5	12	35	800	4	2.2	45	125
BEP0220TA	5	15	35	800	4	2.2	50	100
BEP0220TA-MC	5	15	32	800	4	2.2	20	25
BEP0300TA	5	25	40	800	4	2.2	50	100
BEP0300TA-MC	5	25	40	800	4	2.2	50	25
BEP0640TA-MC	5	58	77	800	4	2.2	120	30
BEP0720TA-MC	5	65	87	800	4	2.2	120	30
BEP0900TA-MC	5	75	98	800	4	2.2	120	30
BEP1100TA-MC	5	90	130	800	4	2.2	120	30
BEP1300TA-MC	5	120	160	800	4	2.2	120	30
BEP1500TA-MC	5	140	180	800	4	2.2	120	30
BEP1800TA-MC	5	170	220	800	4	2.2	120	30
BEP2300TA-MC	5	190	260	800	4	2.2	120	25
BEP2600TA-MC	5	220	300	800	4	2.2	120	25
BEP3100TA-MC	5	275	350	800	4	2.2	120	25
BEP3500TA-MC	5	320	400	800	4	2.2	120	20
BEP3800TA-MC	5	340	450	800	4	2.2	120	20
BEP0080TB	5	6	25	800	4	2.2	50	100
BEP0080TB-MC	5	6	25	800	4	2.2	50	25
BEP0080TC	5	6	25	800	4	2.2	50	130
BEP0080TC-MC	5	6	25	800	4	2.2	50	40

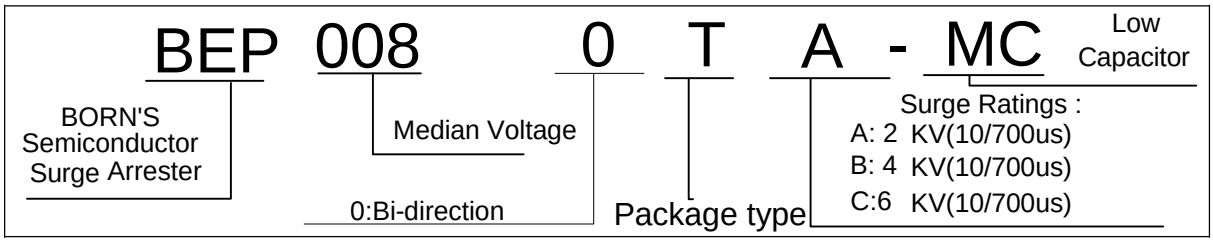
① Vs is measured at 100KV/s

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

SURGE RATINGS

Series	I_{PP} (A) min			
	2×10us	8×20us	10×360us	10×1000us
A	100	90	50	35
B	250	250	125	80
C	500	400	175	100

ORDERING INFORMATION



SOLDERING PARAMETERS

Reflow Condition		Pb-Free assembly (see FIG.2)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150℃
	-Temperature Max($T_{s(max)}$)	+200℃
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3℃/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3℃/sec. Max
Reflow	-Temperature(T_L) (Liquid us)	+217℃
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)℃
Time within 5℃ of actual Peak Temp (t_p)		8-15 secs.
Ramp-down Rate		6℃/sec. Max
Time 25℃ to Peak Temp (T_P)		8 min. Max
Do not exceed		+260℃

FIG.1: tr × td pulse waveform

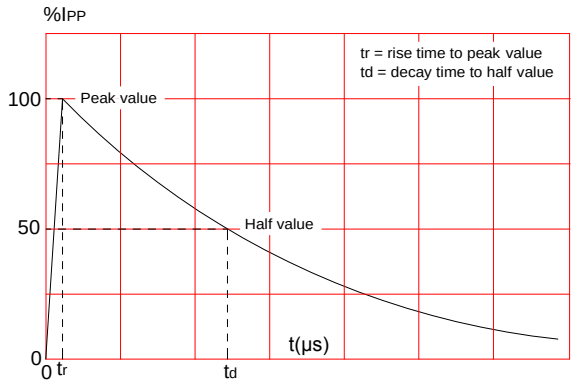


FIG.2: Reflow condition

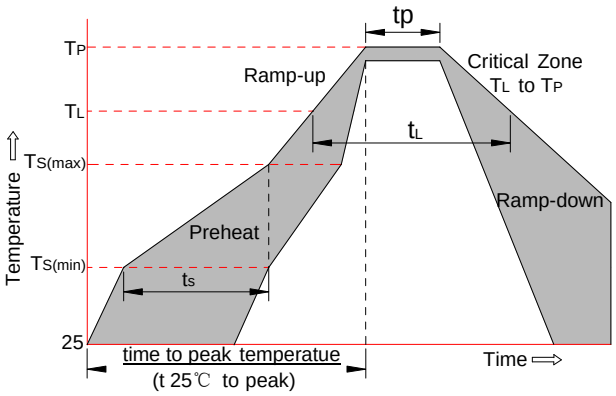


FIG.3: Normalized Vs change vs. junction temperature

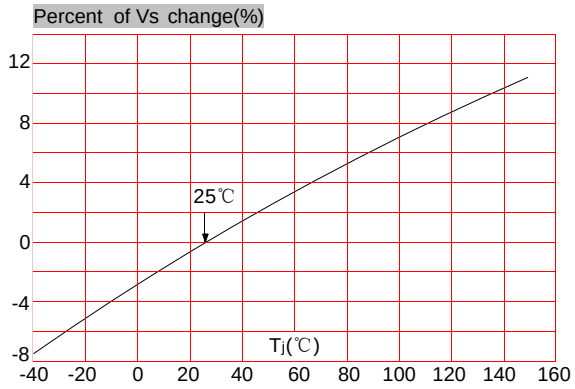
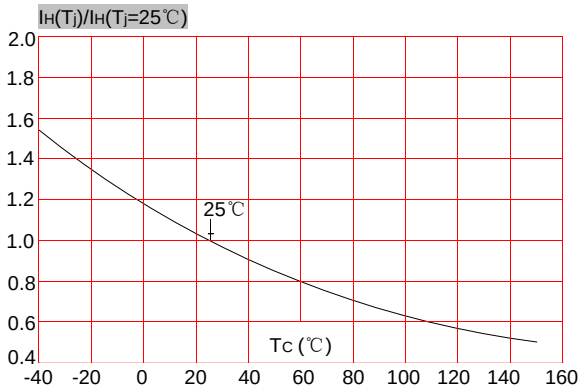
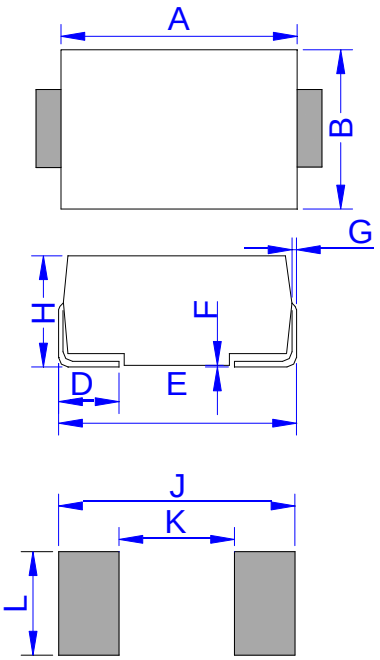


FIG.4: Normalized DC holding current vs. case temperature



PACKAGE MECHANICAL DATA



DO-214AC (SMA)

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.25	4.65	0.167	0.183
B	2.50	2.90	0.098	0.114
C	1.35	1.65	0.053	0.065
D	0.76	1.52	0.030	0.060
E	4.93	5.28	0.194	0.208
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	1.98	2.41	0.078	0.095
J	6.50		0.256	
K		2.30		0.090
L	1.70		0.067	

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