

/ Descriptions

Surface mount transient voltage suppressor,3000W peak pulse power capability at 10/1000 s waveform,Reverse Stand-Off Voltage:5.0V~170V,SMC package.

/ Features

Glass passivated junction, Low inductance, For surface mounted applications, HF product.

/ Applications

General purpose.

/ Equivalent Circuit

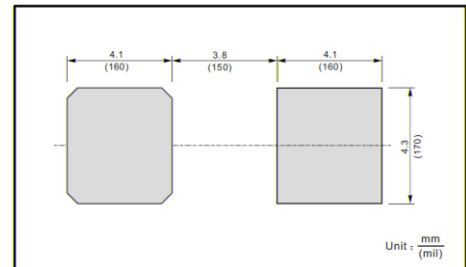


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

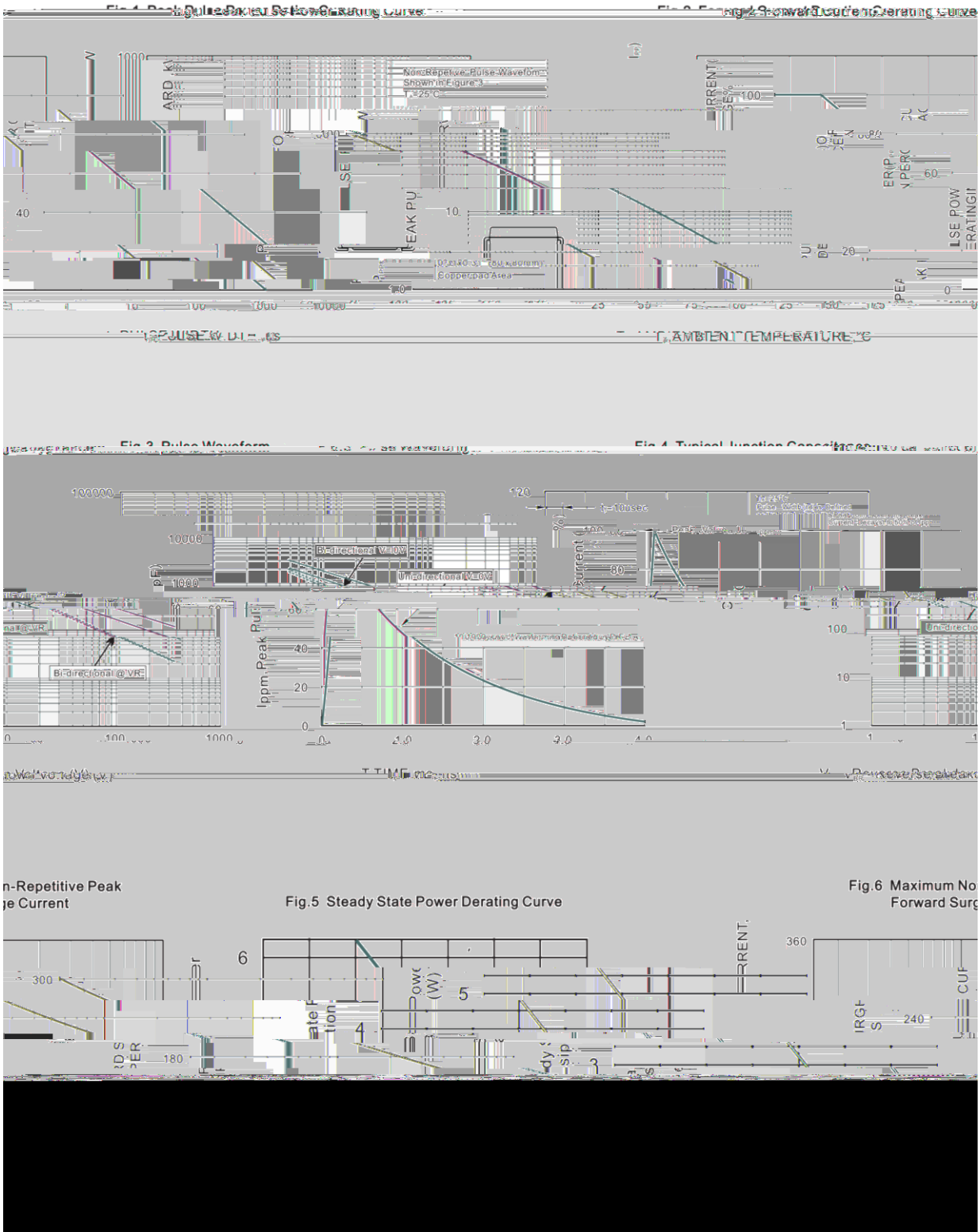
Parameter	Symbol	Rating	Unit
Peak Pulse Power Dissipation at T _A =25 by 10x1000 us waveform (Fig.1)(Note 1), (Note 2)	P _{PPM}	3000	W
Power Dissipation on infinite heat sink at T _A =50°C	P _{M(AV)}	6.5	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave (Note 3)	I _{FSM}	300	A
Maximum Instantaneous Forward Voltage at 100A for Unidirectional only	V _F	3.5	V
Operating Junction and Storage Temperature Range	T _j , T _{stg}	-65 ~ 150	°C
Typical Thermal Resistance Junction to Lead	R _{UJL}	15	/W
Typical Thermal Resistance Junction to Ambient	R _{UJA}	75	/W

Notes:

1. Non-repetitive current pulse . per Fig 3 and derated above T_a = 25 °C per Fig. 2
2. Mounted on copper pad area of 0.31x0.31" (8.0 x 8.0mm) to each terminal
3. Measured on 8.3ms single half sine wave or equivalent square wave for unidirectional device only, duty cycle=4 per minute maximum

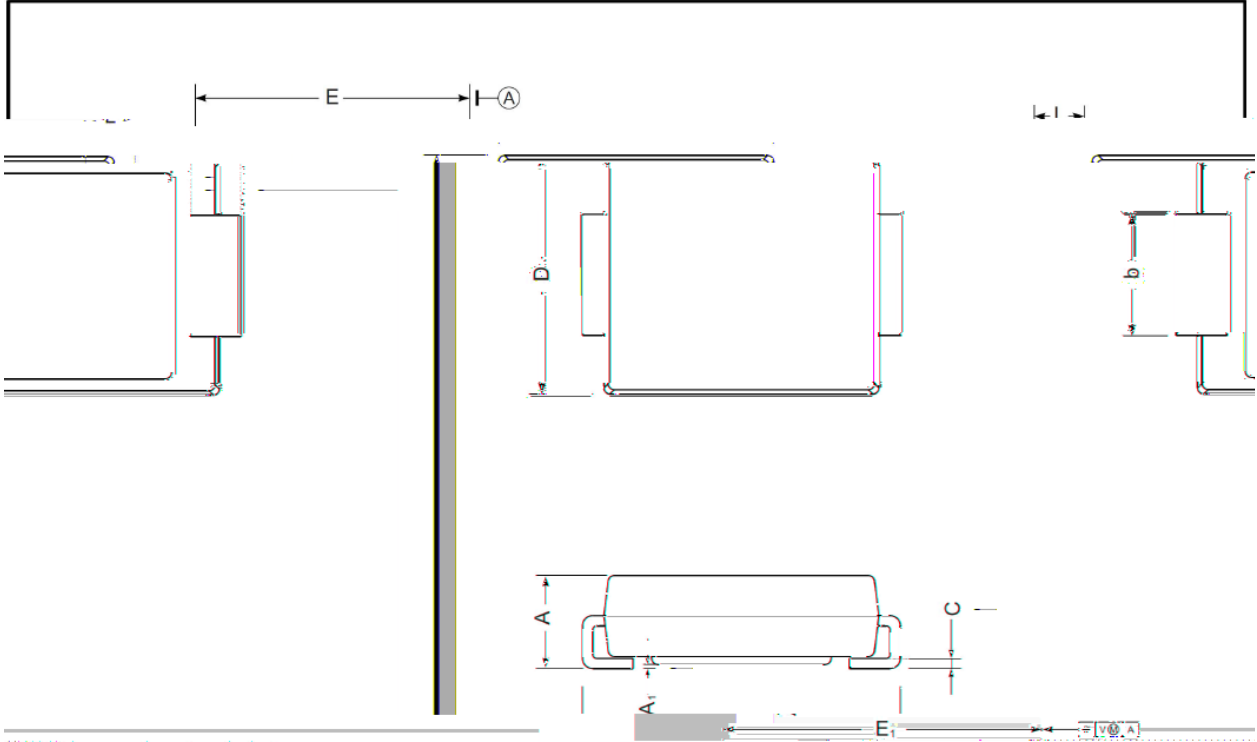
Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Max. Clamp Voltage	Max. Peak Pulse Current	Max. Reverse Leakage	Package	
			V _{BR} @ I _T						SMC	
		V _{RMW}	Min	Max	I _T	V _C @ I _{PP}	I _{PP}	I _R @ V _R	Device Marking Ccode	
UNI	BI	V	V	V	mA	V	A	μA	UNI	BI
SMDJ5.0A	SMDJ5.0CA	5.0	6.4	7	10	9.2	326.1	800	RDE	DDE
SMDJ6.0A	SMDJ6.0CA	6.0	6.67	7.37	10	10.3	291.3	800	RDG	DDG
SMDJ6.5A	SMDJ6.5CA	6.5	7.22	7.98	10	11.2	267.9	500	RDK	DDK
SMDJ7.0A	SMDJ7.0CA	7.0	7.78	8.6	10	12	250	200	PDM	DDM
SMDJ7.5A	SMDJ7.5CA	7.5	8.33	9.21	1	12.9	232.6	100	PDP	DDP
SMDJ8.0A	SMDJ8.0CA	8.0	8.89	9.83	1	13.6	220.6	50	PDR	DDR
SMDJ8.5A	SMDJ8.5CA	8.5	9.44	10.4	1	14.4	208.3	20	PDT	DDT
SMDJ9.0A	SMDJ9.0CA	9.0	10	11.1	1	15.4	194.8	10	PDV	DDV
SMDJ10A	SMDJ10CA	10.0	11.1	12.3	1	17	176.5	5	PDX	DDX
SMDJ11A	SMDJ11CA	11.0	12.2	13.5	1	18.2	164.8	2	PDZ	DDZ
SMDJ12A	SMDJ12CA	12.0	13.3	14.7	1	19.9	150.8	2	PEE	DEE
SMDJ13A	SMDJ13CA	13.0	14.4	15.9	1	21.5	139.5	2	PEG	DEG
SMDJ14A	SMDJ14CA	14.0	15.6	17.2	1	23.2	129.3	2	PEK	DEK
SMDJ15A	SMDJ15CA	15.0	16.7	18.5	1	24.4	123	2	PEM	DEM
SMDJ16A	SMDJ16CA	16.0	17.8	19.7	1	26	115.4	2	PEP	DEP
SMDJ17A	SMDJ17CA	17.0	18.9	20.9	1	27.6	108.7	2	PER	DER
SMDJ18A	SMDJ18CA	18.0	20	22.1	1	29.2	102.7	2	PET	DET
SMDJ20A	SMDJ20CA	20.0	22.2	24.5	1	32.4	92.6	2	PEV	DEV
SMDJ22A	SMDJ22CA	22.0	24.4	26.9	1	35.5	84.5	2	PEX	DEX
SMDJ24A	SMDJ24CA	24.0	26.7	29.5	1	38.9	77.1	2	PEZ	DEZ
SMDJ26A	SMDJ26CA	26.0	28.9	31.9	1	42.1	71.3	2	PFE	DFE
SMDJ28A	SMDJ28CA	28.0	31.1	34.4	1	45.4	66.1	2	PFG	DFG
SMDJ30A	SMDJ30CA	30.0	33.3	36.8	1	48.4	62	2	PFK	DFK
SMDJ33A	SMDJ33CA	33.0	36.7	40.6	1	53.3	56.3	2	PFM	DFM
SMDJ36A	SMDJ36CA	36.0	40	44.2	1	58.1	51.6	2	PFP	DFP
SMDJ40A	SMDJ40CA	40.0	44.4	49.1	1	64.5				

/ Electrical Characteristic Curve



/ Package Dimensions

SMC



SMC mechanical data

Symbol	Value	Unit	Value	Unit	Value	Unit	Value	Unit
A	0.21	mm	0.31	mm	1.6	mm	3.25	mm
B	0.5	mm	0.8	mm	1.6	mm	3.25	mm
C	0.15	mm	0.9	mm	2.75	mm		
D	276	mm	244	mm	315	mm	83	mm
E	256	mm	220	mm	299	mm	20	mm
							5.9	mm
							3.5	mm
							108	mm

/ Marking Instructions



Note:

RDE Product Type Code

**** Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot No Code

/ Marking Instructions

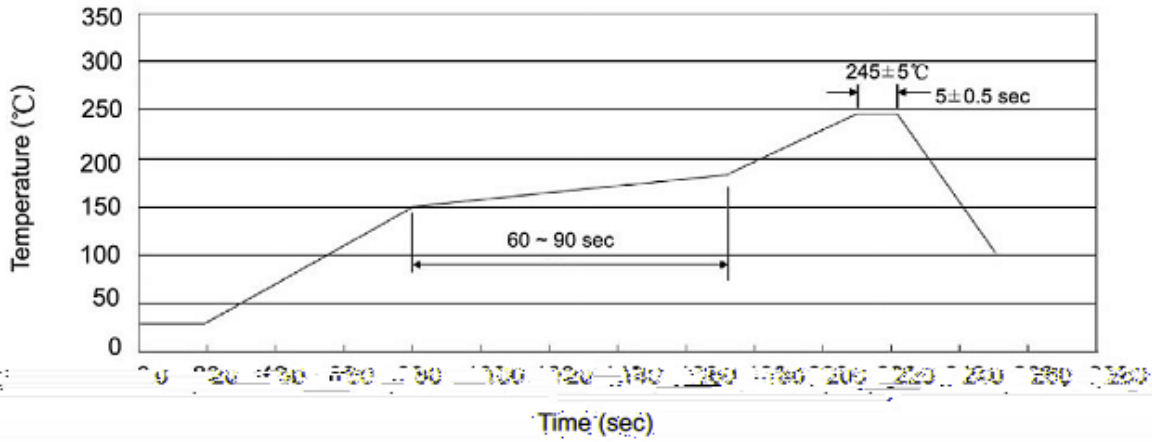


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Note:

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|---|-----|-----|----|---------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245 | 5 | 5 | 0.5sec; | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units/Reel	Units 包装数量	Dimension 包装尺寸 (unit: mm ³)
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