迪一電子®

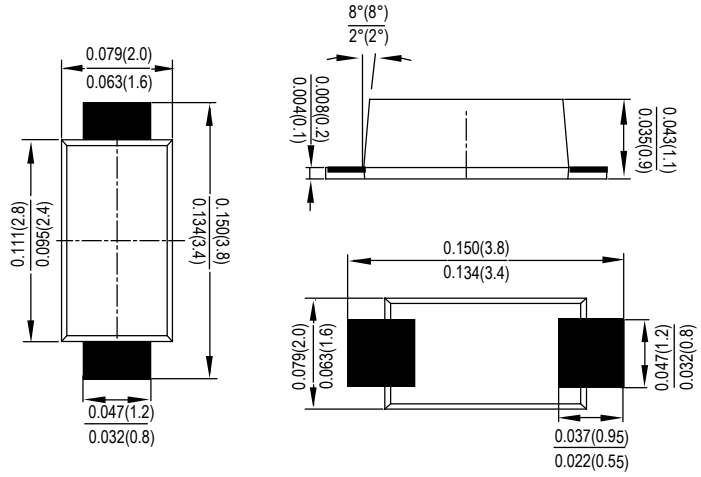
P2SMSJ Series

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR
VOLTAGE 5.0 to 170 Volts 200 Watt Peak Power Pulse

FEATURES

- For surface mounted applications in order to optimize board space.
- Glass passivated junction
- Excellent clamping capability
- Low inductance
- Flammability Classification 94V-0
- High temperature soldering : 260°C / 10 seconds at terminals
- Green molding compound as per IEC61249 Std. . (Halogen Free)

SOD-123FL



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case : Molded plastic
- Polarity : Indicated by cathode band

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

RATING	SYMBOL	VALUE	UNITS
Peak Power Dissipation on 10/1000us waveform (Note1.2 , Fig.1)	Ppp	200	Watts
Peak Forward Surge Current, 8.3ms single half sine - wave superimposed on rated load For(JEDEC method) (Notes 2,3)	IFSM	20	Amps
Peak Pulse Current on 10/1000s waveform(Note 1 , Fig.3)	IPP	See Table 1	Amps
Operating and Storage Temperature Range	TJ, TSTG	-55 ~ +150	°C

NOTES:

1. Non-repetitive current pulse, per Fig.3 and derated above TA = 25°C per Fig.2.
2. Mounted on 5.0 mm^2(0.13mm thick) land areas.
3. Measured on 8.3ms, single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

Part Number	V_{RWM}	V_{BR} @ I_T			I_R @ V_{RWM}	V_C @ I_{PP}		Marking Code
		Min.	Max.	I_T				
	V	V	V	mA	uA	V	A	
P2SMSJ5.0A	5.0	6.40	7.00	10	200	9.2	21.7	HE
P2SMSJ6.0A	6.0	6.70	7.40	10	200	10.3	19.4	HG
P2SMSJ6.5A	6.5	7.20	8.00	10	250	11.2	17.9	HK
P2SMSJ7.0A	7.0	7.80	8.60	10	100	12.0	16.7	HM
P2SMSJ7.5A	7.5	8.30	9.20	1.0	50	12.9	15.5	HP
P2SMSJ8.0A	8.0	8.90	9.80	1.0	25	13.6	14.7	HR
P2SMSJ8.5A	8.5	9.40	10.40	1.0	10	14.4	13.9	HT
P2SMSJ9.0A	9.0	10.00	11.10	1.0	5	15.4	13.0	HV
P2SMSJ10A	10.0	11.10	12.30	1.0	2.5	17.0	11.8	HX
P2SMSJ11A	11.0	12.20	13.50	1.0	2.5	18.2	11.0	HZ
P2SMSJ12A	12.0	13.30	14.70	1.0	2.5	19.9	10.1	IE
P2SMSJ13A	13.0	14.40	15.90	1.0	1	21.5	9.3	IG
P2SMSJ14A	14.0	15.60	17.20	1.0	1	23.2	8.6	IK
P2SMSJ15A	15.0	16.70	18.50	1.0	1	24.4	8.2	IM
P2SMSJ16A	16.0	17.80	19.70	1.0	1	26.0	7.7	IP
P2SMSJ17A	17.0	18.90	20.90	1.0	1	27.6	7.2	IR
P2SMSJ18A	18.0	20.00	22.10	1.0	1	29.2	6.8	IT
P2SMSJ20A	20.0	22.20	24.50	1.0	1	32.4	6.2	IV
P2SMSJ22A	22.0	24.40	26.90	1.0	1	35.5	5.6	IX
P2SMSJ24A	24.0	26.70	29.50	1.0	1	38.9	5.1	IZ
P2SMSJ26A	26.0	28.90	31.90	1.0	1	42.1	4.8	JE
P2SMSJ28A	28.0	31.10	34.40	1.0	1	45.4	4.4	JG
P2SMSJ30A	30.0	33.30	36.80	1.0	1	48.4	4.1	JK
P2SMSJ33A	33.0	36.70	40.60	1.0	1	53.3	3.8	JM
P2SMSJ36A	36.0	40.00	44.20	1.0	1	58.1	3.4	JP
P2SMSJ40A	40.0	44.40	49.10	1.0	1	64.5	3.1	JR
P2SMSJ43A	43.0	47.80	52.80	1.0	1	69.4	2.9	JT
P2SMSJ45A	45.0	50.00	55.30	1.0	1	72.7	2.8	JV
P2SMSJ48A	48.0	53.30	58.90	1.0	1	77.4	2.6	JX
P2SMSJ51A	51.0	56.70	62.70	1.0	1	82.4	2.4	JZ
P2SMSJ54A	54.0	60.00	66.30	1.0	1	87.1	2.3	RE
P2SMSJ58A	58.0	64.40	71.20	1.0	1	93.6	2.1	RG
P2SMSJ60A	60.0	66.70	73.70	1.0	1	96.8	1.8	RK
P2SMSJ64A	64.0	71.10	78.60	1.0	1	103.0	1.7	RM
P2SMSJ70A	70.0	77.80	86.00	1.0	1	113.0	1.5	RP
P2SMSJ75A	75.0	83.30	92.10	1.0	1	121.0	1.4	RR
P2SMSJ78A	78.0	86.70	95.80	1.0	1	126.0	1.4	RT
P2SMSJ85A	85.0	94.40	104.00	1.0	1	137.0	1.3	RV
P2SMSJ90A	90.0	100.00	111.00	1.0	1	146.0	1.2	RX
P2SMSJ100A	100.0	111.00	123.00	1.0	1	162.0	1.1	RZ
P2SMSJ110A	110.0	122.00	135.00	1.0	1	177.0	1.0	SE
P2SMSJ120A	120.0	133.00	147.00	1.0	1	193.0	0.9	SG
P2SMSJ130A	130.0	144.00	159.00	1.0	1	209.0	0.8	SK
P2SMSJ150A	150.0	167.00	185.00	1.0	1	243.0	0.7	SM
P2SMSJ160A	160.0	178.00	197.00	1.0	1	259.0	0.7	SP
P2SMSJ170A	170.0	189.00	209.00	1.0	1	275.0	0.6	SR

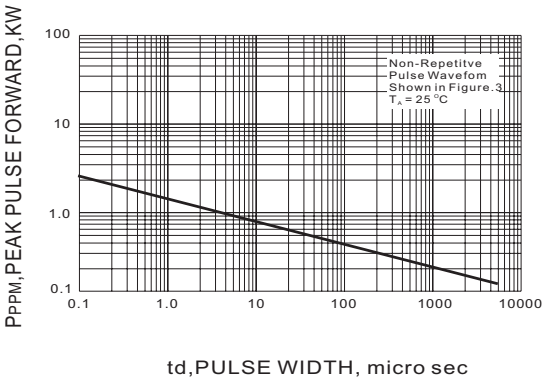


Fig.1 PEAK PULSE POWER RATING CURVE

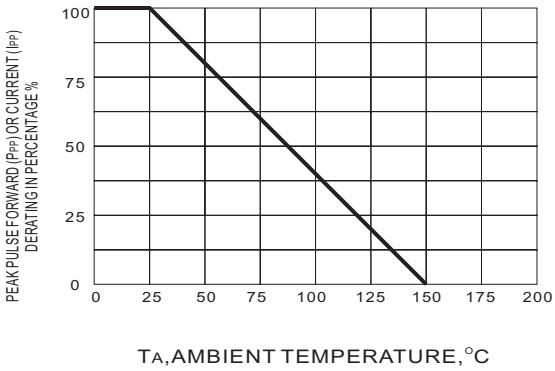


Fig.2 DERATING CURVE

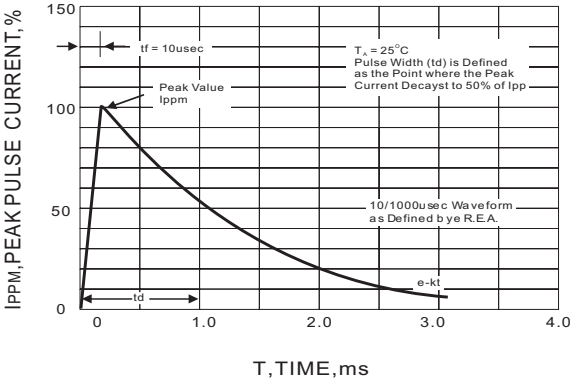


Fig.3 PULSE WAVE FORM

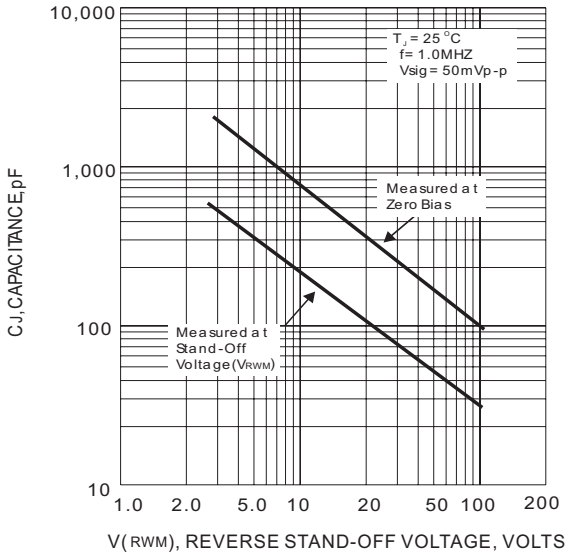
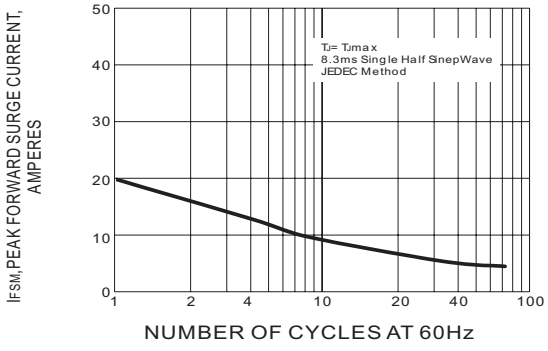


Fig.4 TYPICAL CAPACITANCE



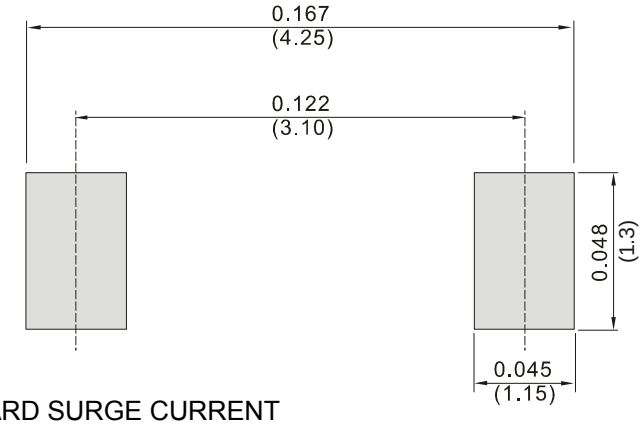


Fig.5 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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