

High Power Bidirectional TVS

Compliance Standard

- ◆ IEC 61000-4-2
- ◆ IEC 61000-4-4
- ◆ IEC 61000-4-5
- ◆ EN 50121

Applications

- ◆ Industrial
- ◆ Railway Application
- ◆ Surveillance
- ◆ Measurement

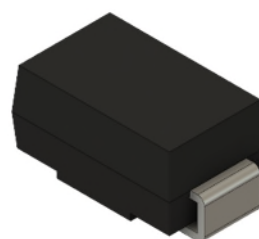
Features

- ◆ 400W Peak Pulse Power
- ◆ Quick Response
- ◆ Low Clamping Voltage
- ◆ Low Leakage Current

Mechanical Characteristics

- ◆ SMA Package
- ◆ Weight 60 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 13"
- ◆ 5,000 PCS Per Reel

Package



SMA

Device Symbol



DEVICE CHARACTERISTICS

Maximum Rating			
Parameter	Symbol	Value	Unit
Peak Pulse Power	P_{PP}	400	Watt
Lead Soldering Temperature	T_L	260 (10s)	°C
Operating Temperature Range	T_J	-55~150	°C
Storage Temperature Range	T_{STG}	-55~150	°C

ELECTRICAL CHARACTERISTICS @ 25°C								
Part Number	Marking	Breakdown Voltage V_{BR} @ I_T			I_R @ V_{RWM}	V_{RWM}	I_{PP}	V_C @ I_{PP}
		Min (V)	Max (V)	I_T (mA)	(μA)	(V)	(A)	(V)
SMAJ5.0CA	WE	6.4	7.0	10	800	5.0	43.4	9.2

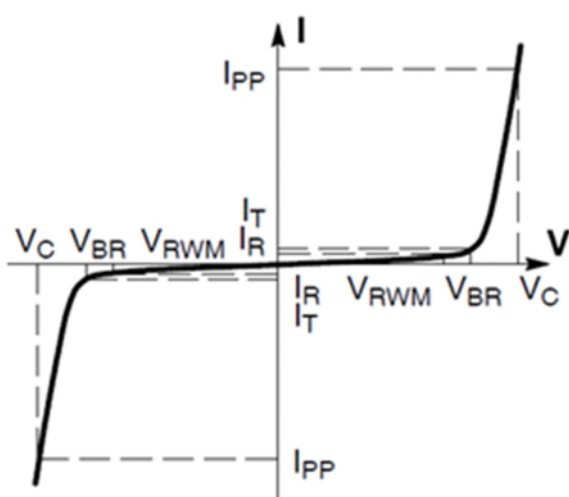


Figure1. I-V Characteristics



Figure2. Power Derating Curve

DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.51	2.76	0.109	0.099
B	4.10	4.55	0.179	0.162
C	1.23	1.63	0.049	0.064
D	1.96	2.26	0.077	0.089
E	4.87	5.22	0.192	0.206
F	0.75	1.51	0.030	0.060



LAYOUT PAD DIMENSION

<i>Layout PAD Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	5.30	5.70	0.208	0.224
B	1.50	1.80	0.059	0.071
C	1.70	2.10	0.067	0.083



<i>Revision History</i>	<i>Description</i>
v2.0	Re-organize datasheet layout