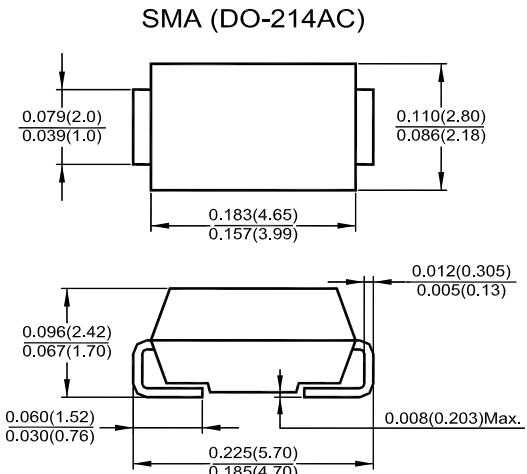


SMA6J15A-HAF

Surface Mount Transient Voltage Suppressors

Features

- Plastic package has UL Flammability Classification 94V-0
- Very fast response time
- Halogen and Antimony Free(HAF), RoHS compliant



Dimensions in inches and (millimeters)

Mechanical Data

- Case: DO-214AC (SMA) molded plastic
- Polarity: Color band denotes cathode end except Bipolar
- Mounting Position: Any
- Marking Code: 15A

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation with a 10/1000 μs Waveform ¹⁾	P_{PPM}	Minimum 600	W
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) ²⁾	I_{FSM}	100	A
Maximum Instantaneous Forward Voltage (Unidirectional only) at 50 A	V_F	3.5	V
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ Non-repetitive current pulse and derated above $T_a = 25^\circ\text{C}$.

²⁾ Mounted on copper lead area at 5 mm^2 (0.013 mm thick).

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise specified)

Type	I _R Max at V _{RM}			V _{BR} at I _R ¹⁾			V _{CL} at IPP 10/1000 μs		R _D ²⁾ 10/1000 μs	V _{CL} at IPP 8/20 μs		R _D ²⁾ 8/20 μs	αT ³⁾				
	25°C	85°C	V	Min.	Max.	mA	Max.	A		Max.	A						
	μA		V			mA	V	A		Ω	V	A	Ω	10-4/ $^\circ\text{C}$			
SMA6J15A	0.2	1	15	16.7	18.5	1	23.6	25.1	0.206	27.7	123	0.075	8.8				

¹⁾ Pulse test: $t_p < 50\text{ms}$.

²⁾ To calculate maximum clamping voltage at other surge currents, use the following formula: $V_{CL\text{Max}} = R_D \times I_{PP} + V_{BR\text{Max}}$.

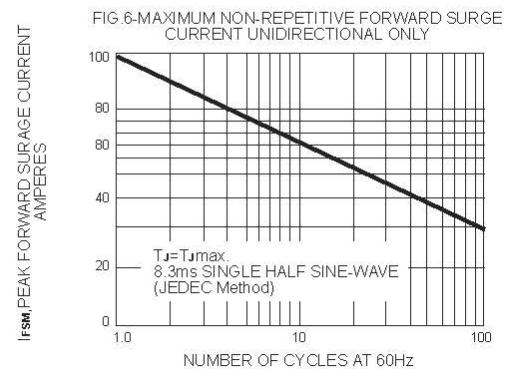
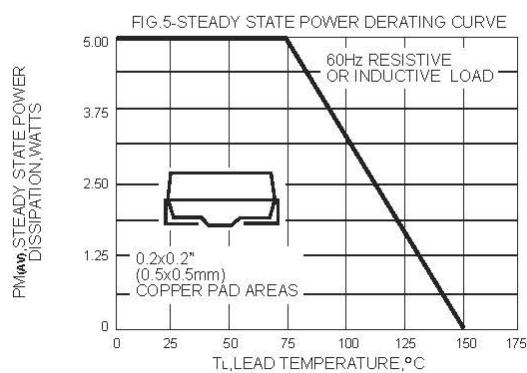
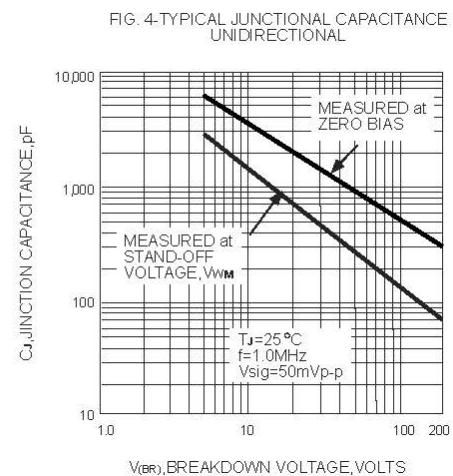
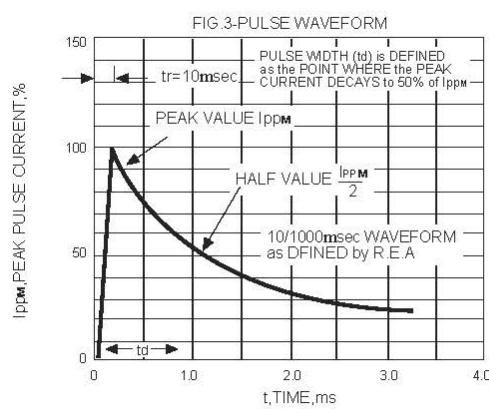
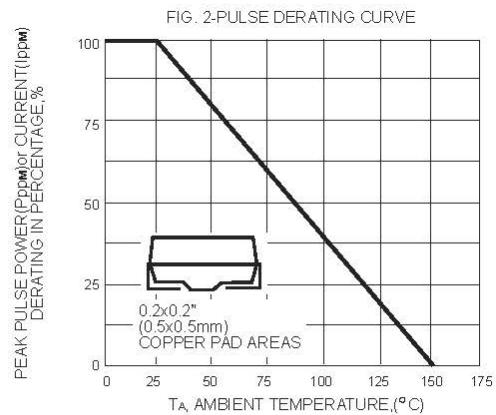
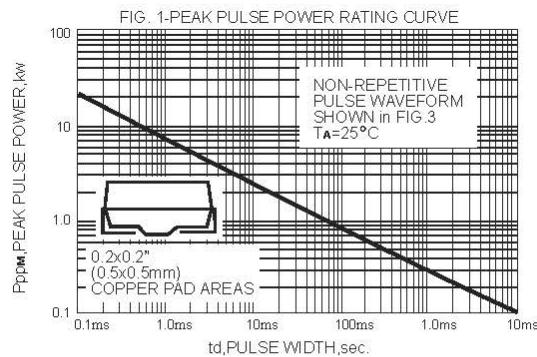
³⁾ To calculate V_{BR} versus junction temperature, use the following formula: $V_{BR} \text{ at } T_J = V_{BR} \text{ at } 25^\circ\text{C} \times (1 + \alpha T \times (T_J - 25))$.

TOP DYNAMIC



Dated : 30/06/2016 CG Rev: 02

SMA6J15A-HAF



TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080006

Certificate No. 121505007 Certificate No. 50114012 Certificate No. 0515150066 Certificate No. ECHN 0001 AL02

Dated : 30/06/2016 CG Rev: 02