Transient Voltage Suppressor

multicomp



Features:

- Glass passivated junction
- · Low incremental surge resistance, excellent clamping capability
- 1,500W peak pulse power capability with a 10/1,000µs waveform, repetition rate (duty cycle): 0.01%
- Very fast response time
- High temperature soldering guaranteed : 250°C/10 secs at terminals

Mechanical Data:

- Case : JEDEC DO-214AB moulded plastic over glass passivated junction
- Polarity : Foruni-directional types the colour band denotes the cathode, which is positive with respect to the anode under normal TVS operation
- Weight : 0.007 ounces, 0.21 grams
- Flammability : epoxy is rated UL 94V-0

Maximum Ratings & Characteristics: Tamb = 25°C, unless otherwise specified.

Description	Symbol	Values	Unit
Peak power dissiation with a 10/1,000µs waveform (Note1 & 2,)	Рррм	1.500 (Min.)	W
Peak pulse current with a 10/1,000µs waveform (Note1)	Іррм	See table below	A
Peak forward surge current, 8.3ms single half sine-wave unidirectional only (Note 2)	Ifsm	200	Α
Typical thermal resistance, junction to ambient (Note 3)	RthJA	100	°C/W
Typical thermal resistance, junction to lead	RthJL	20	°C/W
Operational junction and storage temperature range	Tj, Tsтg	-55 to +150	°C

Notes:

1. Non-repetitive current pulses, per fig.3 and derated above TA = 25°C per fig.2

2. Mounted on 0.2 × 0.2" (5.0 × 5.0mm) copper pads to each terminal

3. Mounted on minimum recommended pad layout

Bi-Directional 1,500 Watt Surface Mount TVS

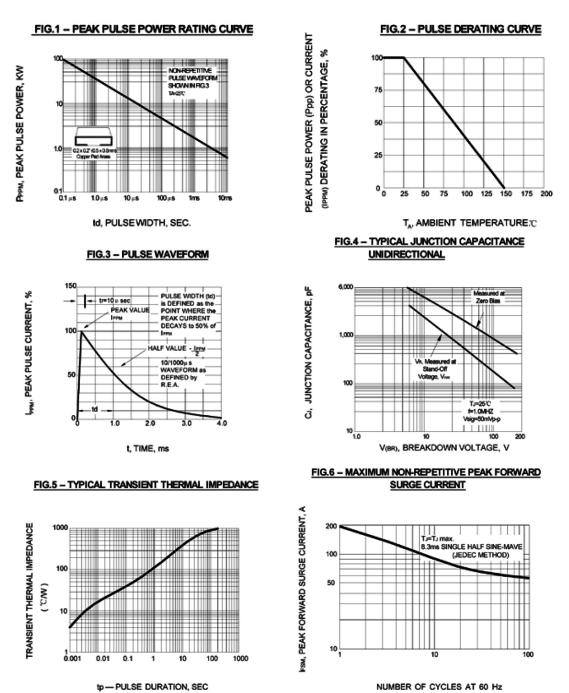
Part Number	Marking	Stand-off Voltage Vwm (V)	Breakdown Voltage VBR (V) Min. at IT	Breakdown Voltage V _{BR} (V) Max. at IT	Test Current Itest (mA)	Max. Clamping Voltage Vclamp (V)	Peak Pulse Current IPP (A)
SMCJ6.0CA+	BDG	6	6.67	7.67	10	10.3	145.6
SMCJ9.0CA+	BDV	9	10	11.5	1	15.4	97.4

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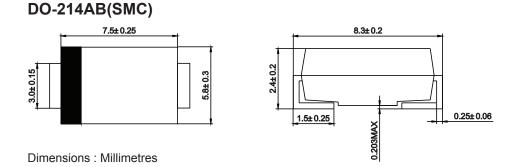
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Ratings & Characteristic Curves



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Part Number Table

Description	Part Number
Transient Voltage Suppressor,	SMCJ6.0CA+
Bi-Directional 1,500 Watt	SMCJ9.0CA+

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