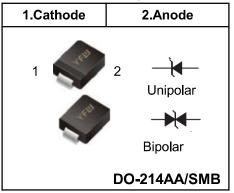


Transient Voltage Suppressor

FEATURES

- ♦ Excellent clamping capability
- ♦ Low leakage current
- ♦ Low capacitance
- ♦ High surge capability
- ♦ Glass passivated chip
- ♦ Epoxy resin package
- ♦ Built-in strain relief
- ♦ Will not fatigue
- ♦ RoHS Compliant
- ♦ Fast response time: typically less than 1.0ps from 0 Volts to VBR min

Pinning



APPlications

- **♦**Telecom
- **♦** Computer
- ♦ Industrial electronic
- ♦ Consumer electronic

Maximum Ratings and Electrical characteristics

Ratings at 25 ambient temperature unless o °C therwise specified.

Parameter	Symbol	Value	Unit
Peak Pulse Power Dissipation	РРРМ	600	W
Steady State Power Dissipation	PD	5	W
Peak Forward Surge Current	IFSM	100	А
Maximum Instantaneous Forward Voltage at 50A	V _{FM}	3.5/5	V
Typical Thermal Resistance Junction to Lead	R _{eJL}	20	°C/W
Typical Thermal Resistance Junction to Ambient	R _{eJA}	100	°C/W
Operating Junction Temperature and Storage Temperature Range	T ^J ,T _{STG}	-50 to +150	°C

NOTES:

Notes1: Non-repetitive current pulse, 10/1000us Waveform.

Notes2: Mounted on copper pad area of 5×5mm to each terminal.

Notes3: Infinite HeatS ink atTA=50°C

Notes4: Measured on 8.3ms single half sine wave or equivalent square wave, duty cycle=4 perm inute maximum.

Notes5: For UnidirectionalOnly, VFM<3.5V for VBR ≤200V and VFM<5.0V for VBR ≥201V.



Electrical Characteristics

Part Number	Device Marking Code	Reverse Stand-off Voltage	Breakdown Voltage чвк ®т		Test Current	Max. Clamping Voltage @ IPP	Pulse	Max. Reverse Leakage @ V _{RWM}
		V _{RWM} (V)	Min.(V)	Max.(V)	lτ(mA)	Vc max.(V)	IPP(A)	l _R (uA)
SMBJ3.3A	3.3A	3.3	5.2	6.0	10	7.3	82.2	200
SMBJ3.3CA	3.3CA	3.3	5.2	6.5	10	8.0	82.2	200

Ratings and Characteristic Curves

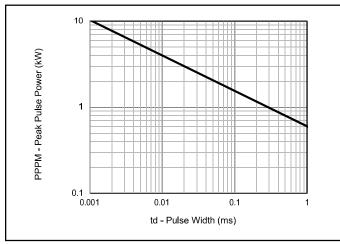


Fig.1 - Peak Pulse Power Rating

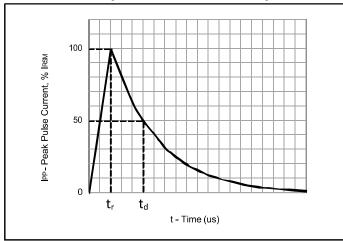


Fig.3 - Pulse Waveform

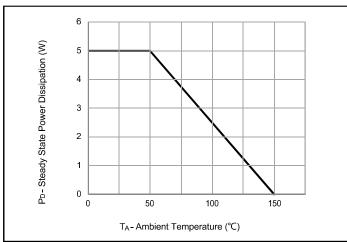


Fig.5 - Steady State Power Dissipation Derating Curve

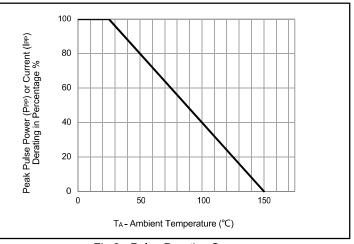


Fig.2 - Pulse Derating Curve

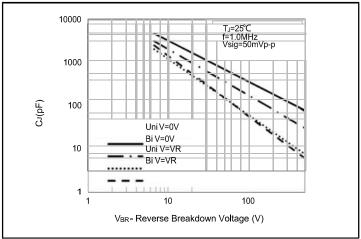


Fig.4 - Typical Junction Capacitance

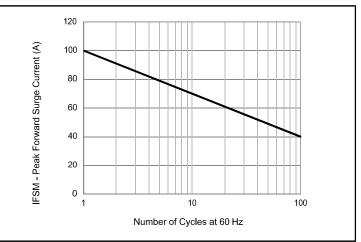
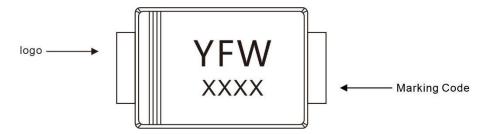


Fig.6 - Maximum Non-Repetitive Peak Forward Surge Current Uni-Directional Only



Marking Diagram

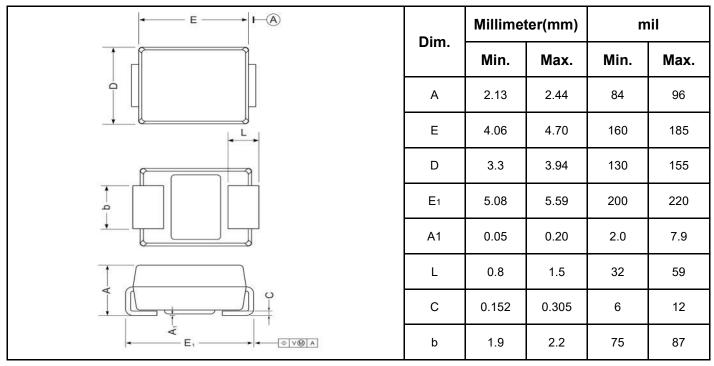


Ordering information

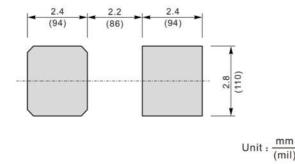
Package	Packing Description	Packing Quantity	
DO-214AA SMB Tape/Reel,13"reel		3000PCS/Reel 30000PCS/Carton	

Package Dimensions

DO-214AA SMB



The recommended mounting pad size





Disclaimer

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