

SMBJ12A933



DO-214AA(SMB) Color Band Denotes Cathode Device Marking: PV

600 Watt Unidirectional Transient Voltage Suppressor

Absolute Maximum Ratings (Note 1) T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _{PPM}	Peak Pulse Power Dissipation on 10/1000μs waveform	600	W
I _{PPM}	Peak Pulse Current on 10/1000μs waveform	17.5	А
I _{FSM}	Non-repetitive Peak Forward Surge Current superimposed on rated load (JEDEC method)(Note 2)	100	А

Note 1) These ratings are limiting values above which serviceability of any semiconductor device may be impaired.

Note 2) Measured on 8.3ms single half-sine wave or equivalent square wave. Duty cycle=4 pulses per minute maximum.

Thermal Characteristics

Symbol	Parameter	Value	Units
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	100	°C/W
$R_{\theta JL}$	Thermal Resistance from Junction to Leads	20	°C/W
T _{STG}	Storage Temperature Range	-65 to +175	°C
T _J	Operating Junction Temperature	-65 to +150	°C

Electrical Characteristics T₄ = 25°C unless otherwise noted

Symbol	Parameter Parame	Value	Units
V_{BR}	Breakdown Voltage at I _T = 1.0mA	13.2 – 13.8	V
αΤ	Maximum Temperature coefficient of V _{BR}	0.083	%/°C
V _{RWM}	Reverse Stand-off Voltage	12	V
I _R	Maximum Reverse Leakage Current @V _{RWM}	5	μΑ
Vc	Maximum Clamping Voltage @I _{PPM}	15.6	V



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