

Features

- The plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Glass passivation chip junction
- High surge current capability
- Low leakage current
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



SMB(DO-214AA)



Cathode  Anode

Mechanical Data

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.003ounce, 0.093 gram

Applications

- For use in general purpose rectification of power supply,inverters, converters,and freewheeling diodes application.

Maximum Ratings And Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave 60Hz,,resistive or inductive load. For capacitive load, derate by 20%.)

Parameters	Symbols	Value	Unis
Maximum recurrent peak reverse voltage	V_{SRM}	1000	Volts
Maximum RMS voltage	V_{RMS}	700	Volts
Maximum DC blocking voltage	V_{DC}	1000	Volts
Maximum average forward rectified current	$I_{F(AV)}$	3.0	Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100	Amps
Maximum instantaneous forward voltage at 3.0 A	V_F	1.10	Volts
Maximum reverse current at rated DC blocking voltage	$T_A=25^{\circ}C$	5.0	μA
	$T_A=125^{\circ}C$	100.0	
Typical junction capacitance (Note 1)	C_j	50	pF
Typical Thermal Resistance(Note2)	$R_{\theta JA}$	75	$^{\circ}C/W$
	$R_{\theta JL}$	20	
Operating and Storage temperature range	T_j, T_{STG}	-55 to +150	$^{\circ}C$

Note 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.P.C.B. mounted with 5.0 mm x 5.0 mm (0.013 mm thick) copper pad areas

FIG.1-FORWARD CURRENT DERATING CURVE

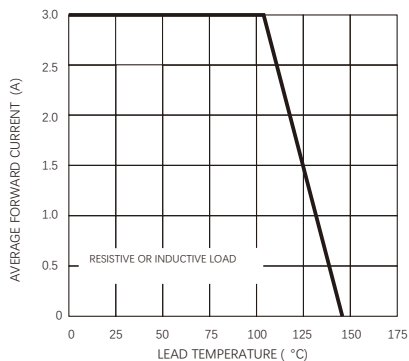


Fig.2-Typical Instantaneous Forward Characteristics

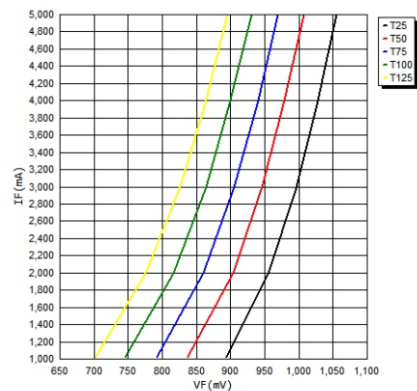


Fig.3-Maximum Non-repetitive Peak Forward Surge Current

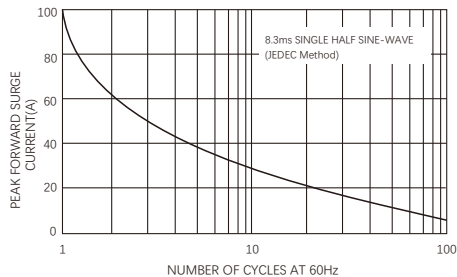


Fig.4-Typical Reverse Characteristics

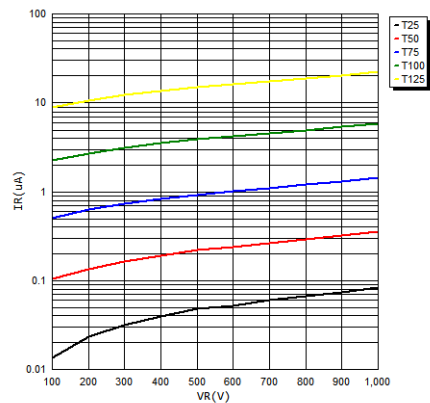
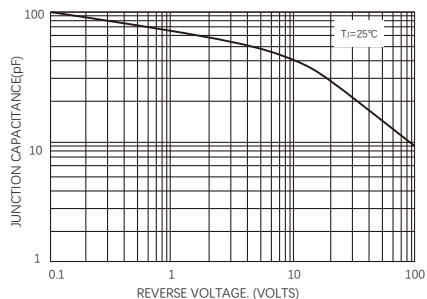
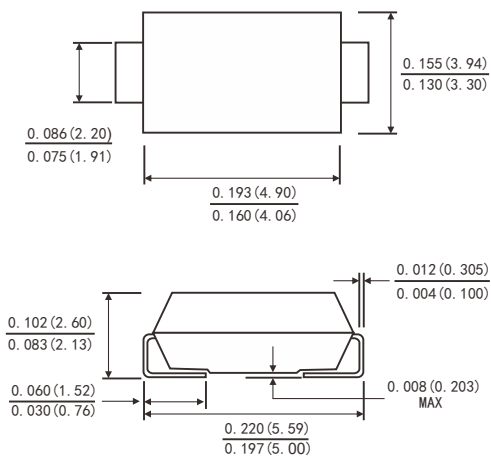


Fig.5-typical Junction Capacitance



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Dimensions in inches and (millimeters)

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