

GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 3000 Volts

Forward Current -1.0Ampere

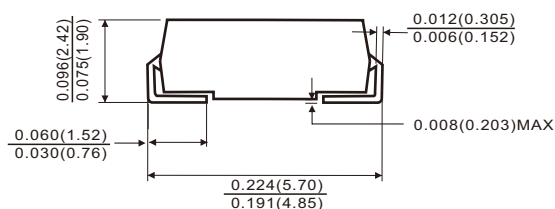
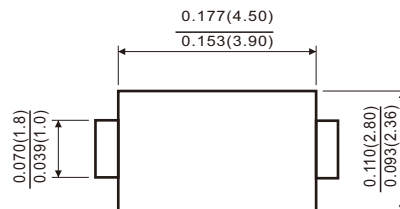
FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- Glass Passivated Chip Junction
- High forward surge current capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHs 2011/65/EU

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

SMA(DO-214AC)



Dimensions in inches and (millimeters)

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%.)

	Symbols	S130	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	3000	Volts
Maximum RMS Voltage	V_{RMS}	2100	Volts
Maximum DC Blocking Voltage	V_{DC}	3000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm) lead length at $T_A=75^\circ\text{C}$	$I_{(AV)}$	1.0	Amp
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	35.0	Amps
Maximum Instantaneous Forward Voltage @ 1.0 A	V_F	2.0	Volts
Maximum Reverse current at rated DC Blocking Voltage	$T_a = 25^\circ\text{C}$	5.0	μA
	$T_a = 150^\circ\text{C}$	300.0	
Typical Thermal resistance	$R_{\theta JC}$	40	$^\circ\text{C/W}$
Typical Thermal resistance	$R_{\theta JA}$	100	$^\circ\text{C/W}$
Operating and Storage temperature Range	T_J T_{STG}	-50 to +150	$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES S130

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

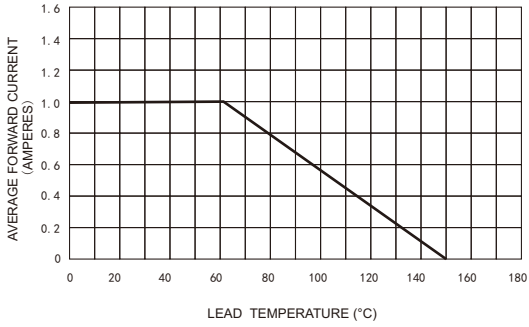


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

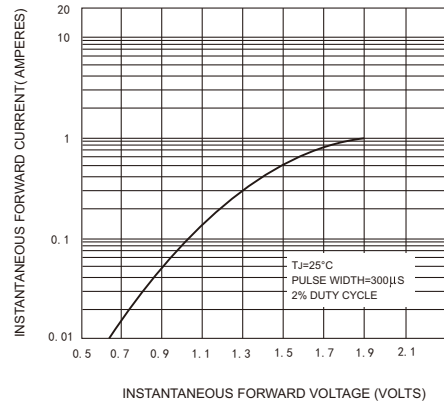


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

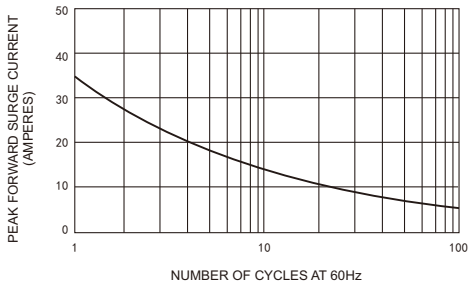


FIG.4-TYPICAL REVERSE CHARACTERISTICS

