

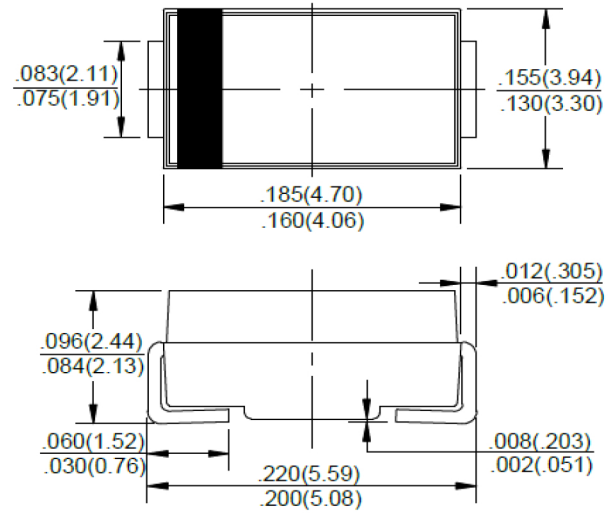
FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- For sue in low voltage,high frequency inverters free wheeling,and polarity protection applications
- The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

- Case: JEDEC DO - 214AA. molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.009 ounce.0.25 grams

SMB (DO-214AA)



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 current by 20%

	SYMBOL	SS14B	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 75^{\circ}C$	$I_{(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated $T_j = 125^{\circ}C$	I_{FSM}	40	A
Maximum Forward Voltage at 1.0A DC	V_F	0.55	V
Maximum Reverse Current $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100^{\circ}C$	I_R	0.5 8	mA
Typical Junction Capacitance (Note 1)	C_j	100	pF
Typical Thermal Resistance (Note 2)	R_{QJL}	10	$^{\circ}C/W$
	R_{QJA}	50	
Operating Junction Temperature Range	T_j	-55 to 125	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to 150	$^{\circ}C$

NOTE: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Lead.

FIG.1-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

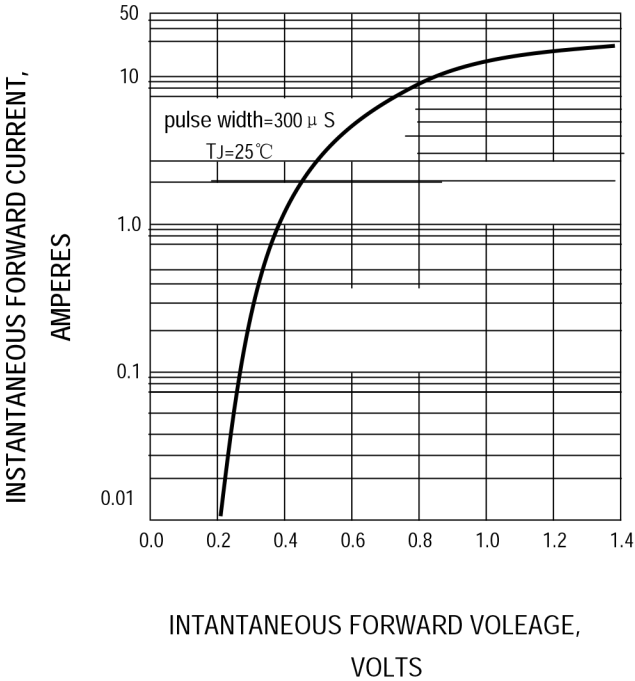


FIG.2-TYPICAL JUNCTION CHARACTERISTICS

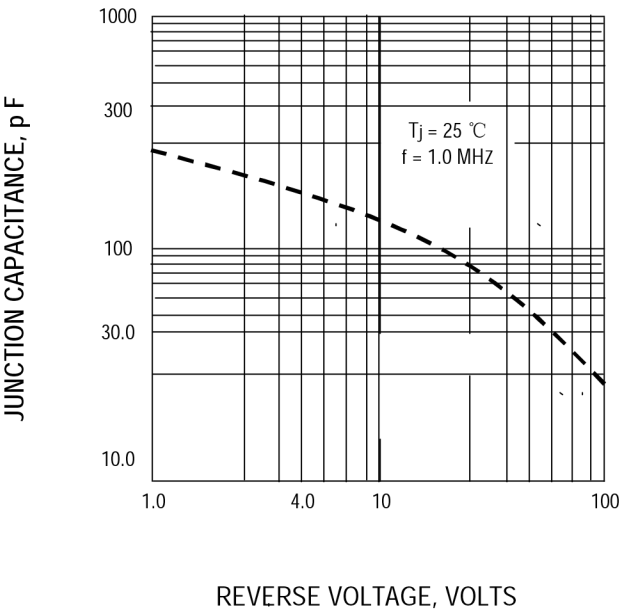


FIG.3-FORWARD CURRENT DERATING CURVE

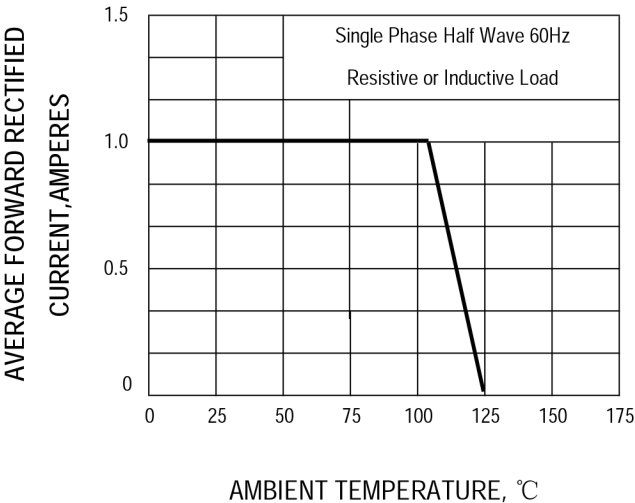


FIG.4-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

