

Features

- Glass Passivated Die Construction
- Low forward voltage drop
- High current capability
- High reliability
- Metal silicon junction, majority carrier conduction
- Plastic Case Material has UL Flammability Classication Rating 94V-0

Mechanical Data

- Case: Molded plastic SMB
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	S5A	S5B	S5D	S5G	S5J	S5K	S5M	Unit
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Output Current @T∟ =110 ℃	F(AV)	5.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	175							A
Forward Voltage @IF=5.0A	Vfm	1.0							V
Peak Reverse Current @T _A =25 °C		5.0 100							uA
At Rated DC Blocking Voltage @T _A =125°C	IR								
I ² t Rating for fusing (t <8.3ms)	l ² t	127.1							A ² s
Typical Junction Capacitance (Note 1)	Сл	45							рF
Typical Thermal Resistance Junction to Ambient(Note 2)	R0 JA	95							C/W
Operating Temperature Range	TJ	-55 to+150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

Note:

- 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 2. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.1"*0.15" copper pad.

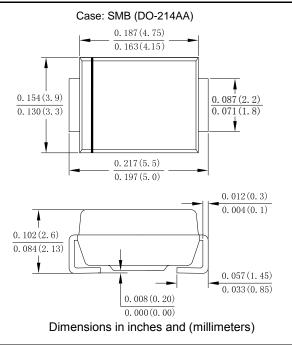




FIG.1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

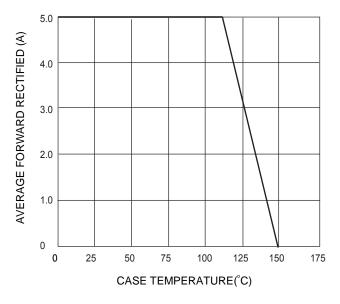


FIG.3 MAXIMUM NON-REPEITIVE SURGE CURRENT

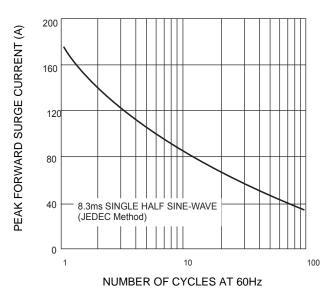


FIG. 5 TYPICAL JUNCTION CAPACITANCE

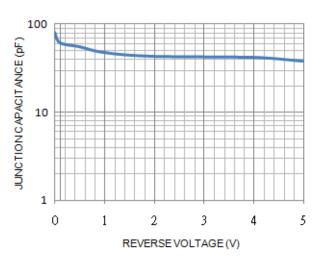
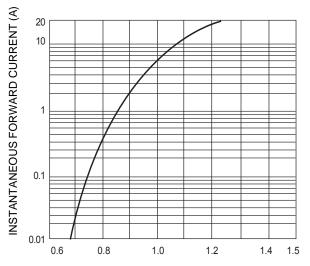
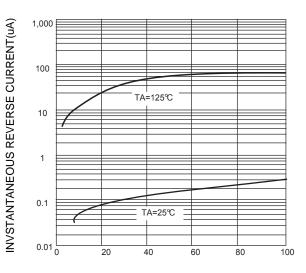


FIG.2 TYPICAL FORWARD CHARACTERISTICS



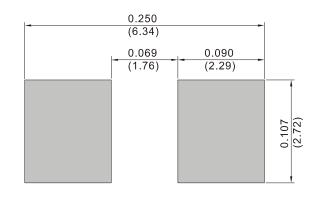
INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 4 TYPICAL REVERSE CHRACTERISTICS



PERCENT OF RATED PEAK INVERSE VOLTGE (%)

FIG.6 MOUNTING PAD LAYOUT





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