



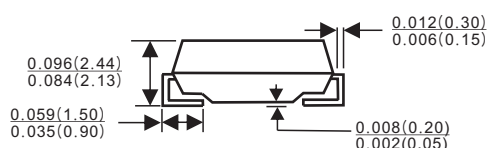
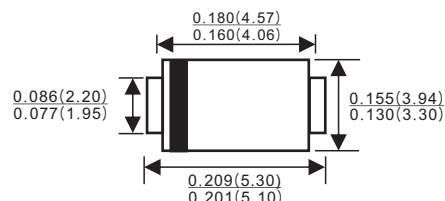
Features

- ✧ Glass passivated chip junction
- ✧ Plastic package has underwriters laboratory flammability classification 94V-0
- ✧ For surface mounted applications
- ✧ Low profile package
- ✧ Built-in strain relief, ideal for automated placement
- ✧ High temperature soldering:
- ✧ 250°C/10 seconds at terminals

Mechanical Data

- ✧ Case: JEDEC DO-214AA, molded plastic over passivated chip
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.093 gram

SMB/DO-214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

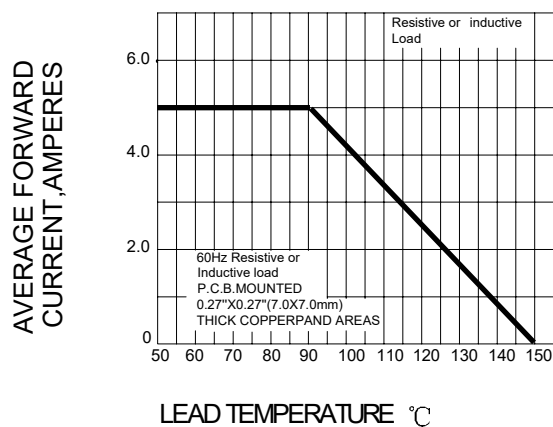
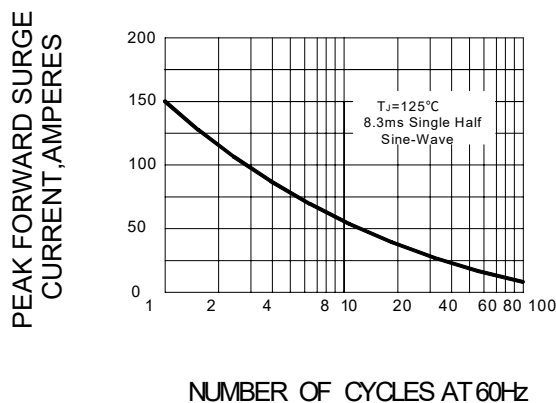
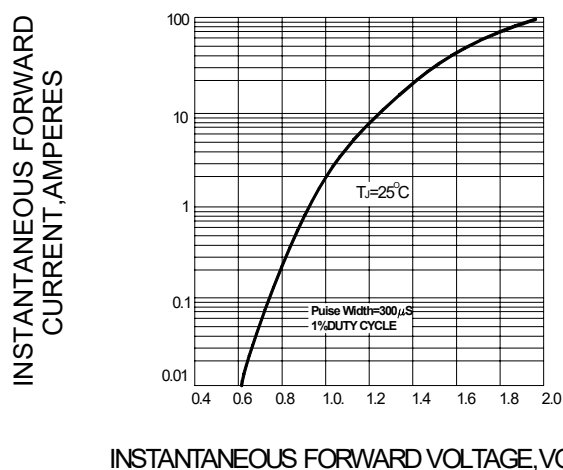
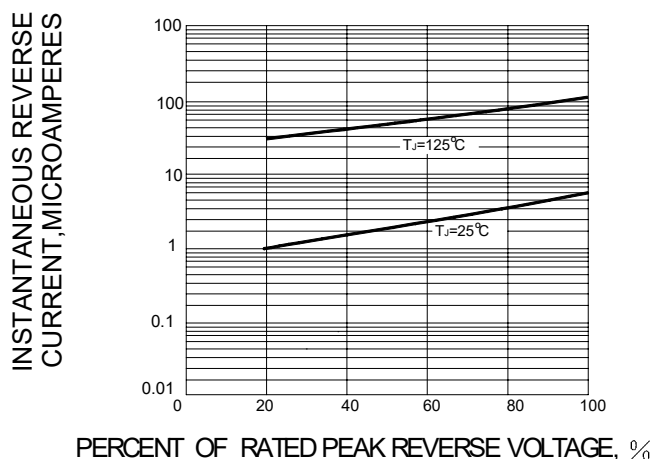
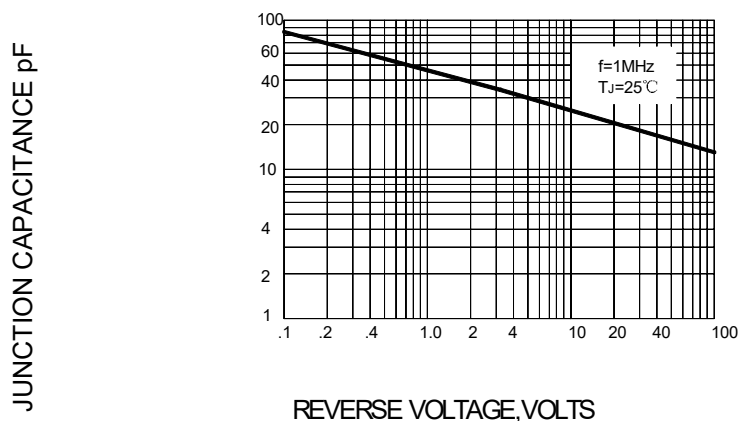
Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbol	S5A	S5B	S5D	S5G	S5J	S5K	S5M	UNITS
Marking code		S5A	S5B	S5D	S5G	S5J	S5K	S5M	
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RWS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current @ T _L =90°C	I _{F(AV)}	5.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	150							A
Peak forward surge current 1 ms,square wave, 1 cycle,T _J =25 °C		550							
Maximum Instantaneous forward voltage at 5.0 A	V _F	1.15							V
Maximum DC reverse current @T _A =25°C	I _R	10							μ A
at rated DC blocking voltage @T _A =125°C		100							
Typical junction capacitance	C _J	35							pF
Typical thermal resitance (NOTE 2)	R _{θJA}	40							°C/W
Operating junction and storage temperature range	T _J T _{STG}	-55-----+150							°C

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts

2. Thermal resistance from junction to ambient and junction to lead P.C.B. mounted on 0.27"X0.27" (7.0X7.0mm²) copper pad areas

Ratings AND Characteristic Curves

FIG.1 – FORWARD DERATING CURVE

FIG.2 PEAK FORWARD SURGE CURRENT

FIG.3 – TYPICAL FORWARD CHARACTERISTICS

FIG.4 – TYPICAL REVERSE CHARACTERISTICS

FIG.5-TYPICAL JUNCTION CAPACITANCE


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X30.6X31	12	11