S5AB-S5MB
Super Fast Recovery Rectifier Diodes

Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain reliefs
- Low forward voltage drop



SMB



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
S5AB-S5MB	SMB	S5x	3000

x: From A-M

Maxmim Ratings (Ta=25℃unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Type Number	S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=75℃	5.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120							A
Maximum Instantaneous Forward Voltage at 5.0A	1.10							V
Maximum DC Reverse Current Ta=25℃	5.0							μA
at Rated DC Blocking Voltage Ta=125℃	250							μA
Typical Junction Capacitance (Note1)	60							pF
Typical Thermal Resistance RθJL (Note 2)	13							℃/W
Operating and Storage Temperature Range T_J, T_{STG}	-65 — +150							℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

Typical Characteristics

FIG.1-TYPICAL FORWARD CHARACTERISTICS

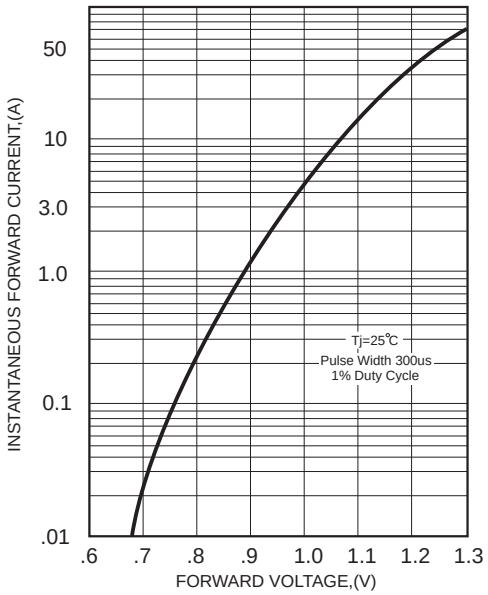


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

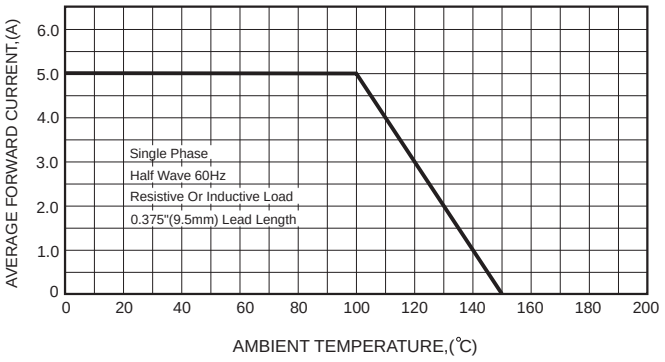


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

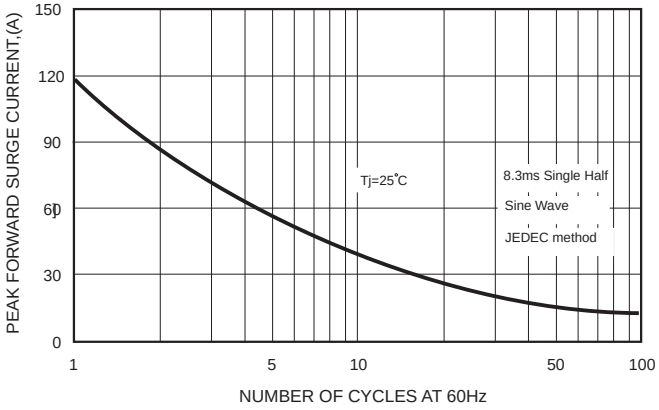


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

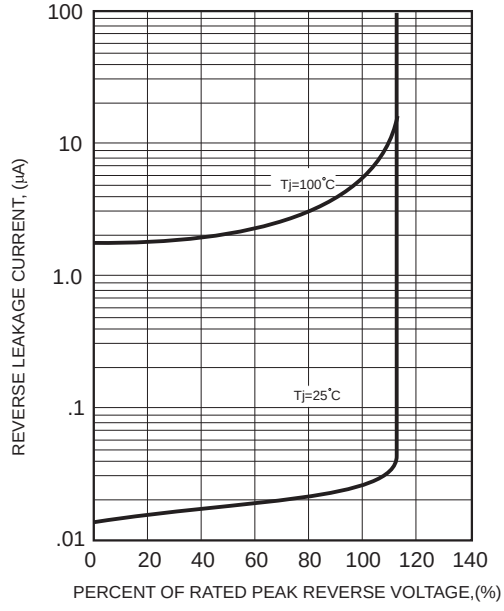
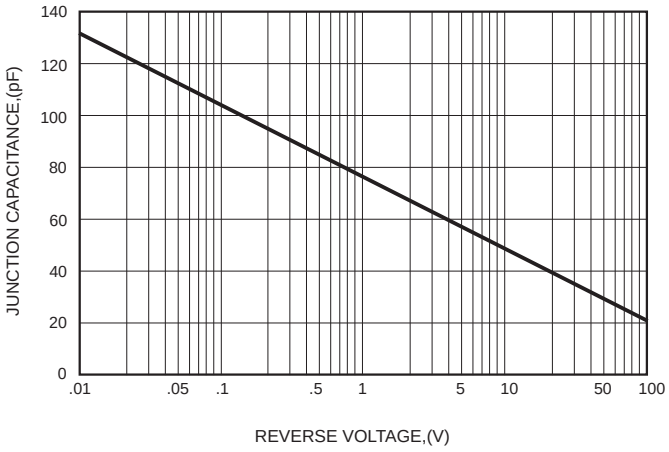
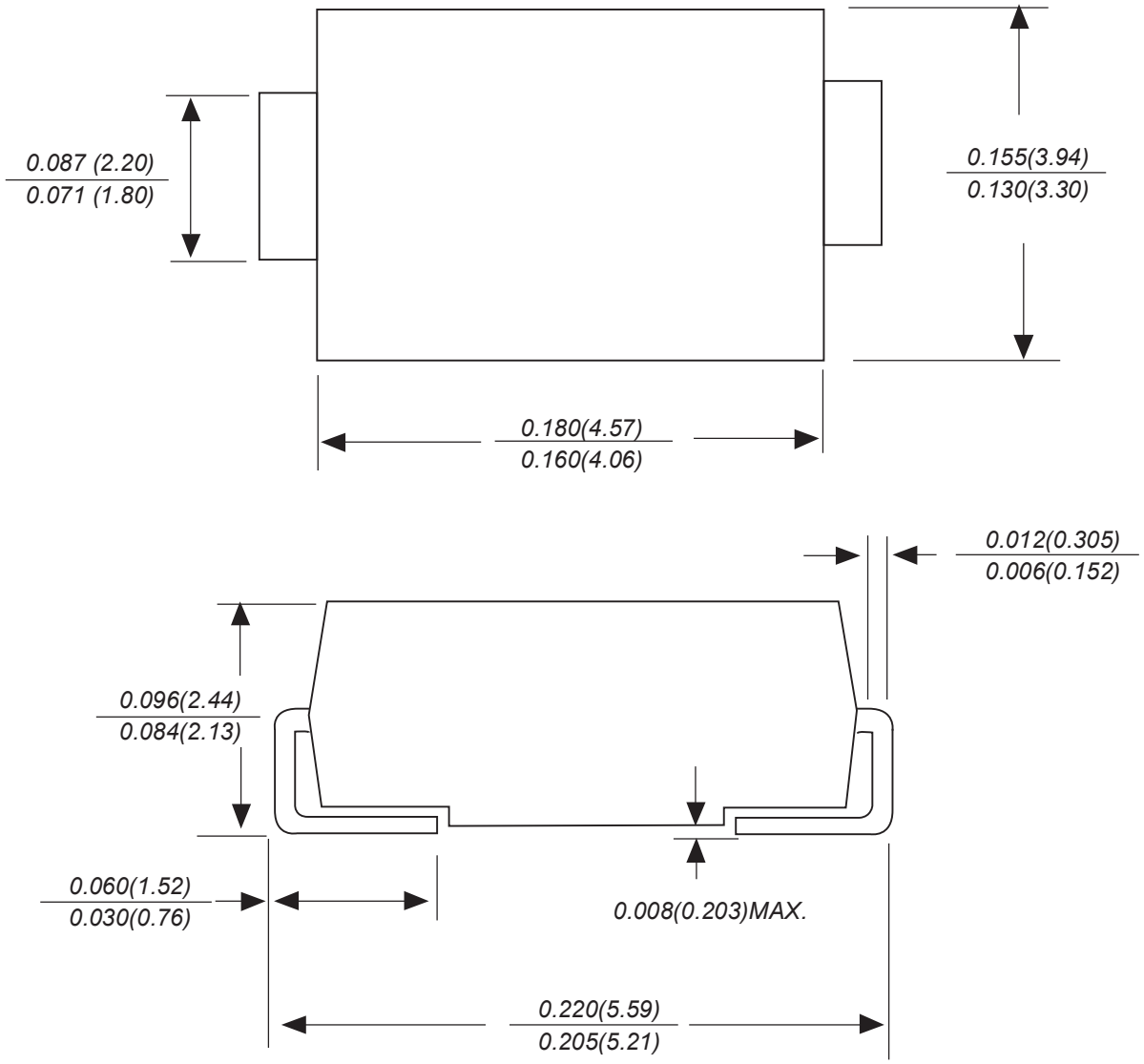


FIG.5-TYPICAL JUNCTION CAPACITANCE



Package Outline Dimensions

SMB



Dimensions in inches and (millimeters)

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