MSKSEMI















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Broduct data sheet

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VOLTAGE RANGE 20 to 100 Volts CURRENT 3.0 Ampere



SMB

FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

P/N(MARK)	SS32B	SS33B	SS34B	SS35B	SS36B	SS38	SS39B	SS310B	UNITS
Maximum Recurrent Peak Reverse Voltage		30	40	50	60	80	90	100	V
Maximum RMS Voltage		21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage		30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current									
At T _L =100°C		3.0					Α		
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		80					Α		
Maximum Instantaneous Forward Voltage at 3.0A		0.55 0.70		0.85		V			
Maximum DC Reverse Current Ta=25°C			0.1				0.02		mA
at Rated DC Blocking Voltage Ta=100°C			5				2		mA
Typical Junction Capacitance (Note1)		300					pF		
Typical Thermal Resistance R JL (Note 2)		10					°C/W		
Operating Temperature Range T _J		-65 —+150					°C		
Storage Temperature Range Tsтg		-65 +150				°C			

NOTES:

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

WIDNDENII SEMICONDUCTOR

RATING AND CHARACTERISTIC CURVES (SS32B THRU SS310B)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

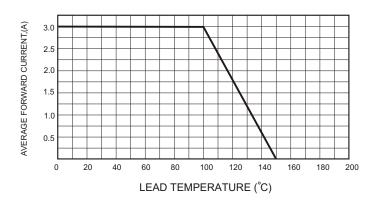
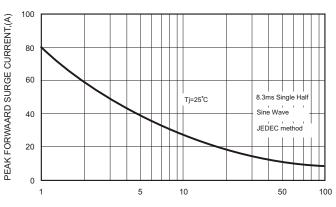


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.4-TYPICAL JUNCTION CAPACITANCE

REVERSE VOLTAGE,(V)

50

0

.01

.05

FIG.2-TYPICAL FORWARD

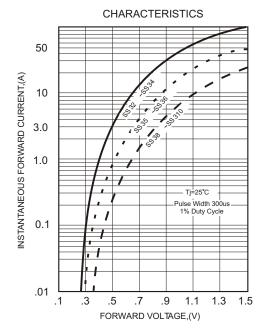
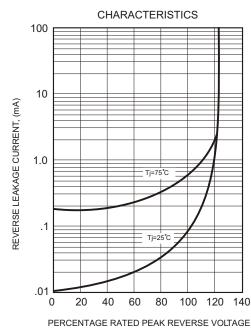
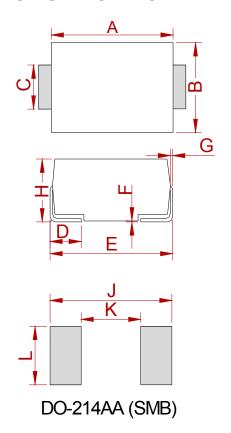


FIG.5 - TYPICAL REVERSE









	Dimensions					
Ref. Mill		neters	Inches			
	Min.	Max.	Min.	Max.		
Α	4.25	4.75	0.167	0.187		
В	3.30	3.94	0.130	0.155		
С	1.85	2.21	0.073	0.087		
D	0.76	1.52	0.030	0.060		
Е	5.08	5.59	0.200	0.220		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	2.11	2.44	0.083	0.096		
J	6.80		0.270			
K		2.60		0.100		
L	2.40		0.090			

REEL SPECIFICATION

P/N	PKG	QTY
SS32B THRU SS310B	SMB	3000



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