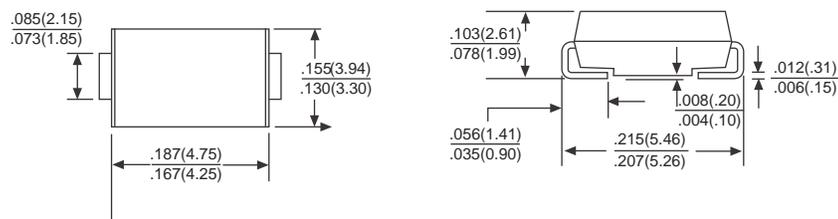


FEATURES

- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- Guard ring for over-voltage protection
- Also available in SMA (Suffix A) and SMC (No Suffix) sizes



DO-214AA (SMB)
Dimensions in inches and (millimeters)

MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 16mm tape EIA STD RS - 4 8 1
- Weight: 0.093 grams

MAXIMUM RATINGS & 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%

Parameter	Symbol	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS39B	SS310B	SS315B	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	80	90	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	63	70	105	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	150	V
Maximum Average Forward Rectified Current @ TL = 90°C	IF(AV)	3.0									A
Peak Forward Surge Current 8.3ms Single Half-Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	100									A
Maximum Instantaneous Forward Voltage @ 3.0A, 25°C	VF	0.50			0.75		0.85				V
Maximum DC Reverse Current @ TA = 25°C at rated DC Blocking Voltage @ TA = 125°C	IR	0.5									mA
		20			10						
Typical Thermal Resistance Junction to Lead (Note)	ROJA	55									°C / W
	ROJL	17									
Operating Temperature Range	TJ	-55 to +125									°C
Storage Temperature Range	TSTG	-55 to +150									°C

Note: Pulse Test Width: 300 µSec, 1% Duty Cycle.

■ **RATING & CHARACTERISTIC CURVES**

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

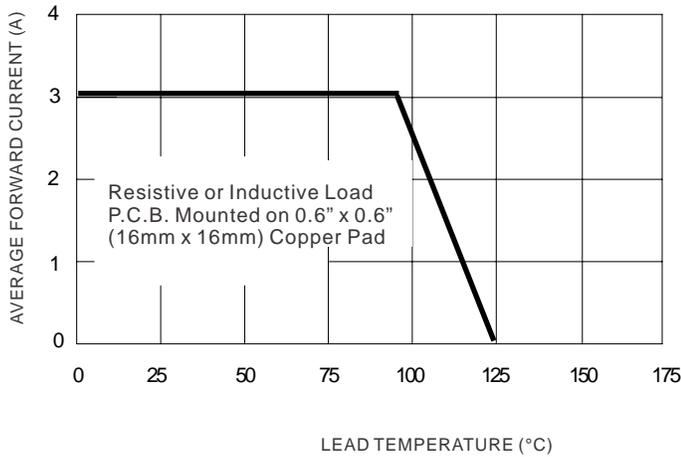


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

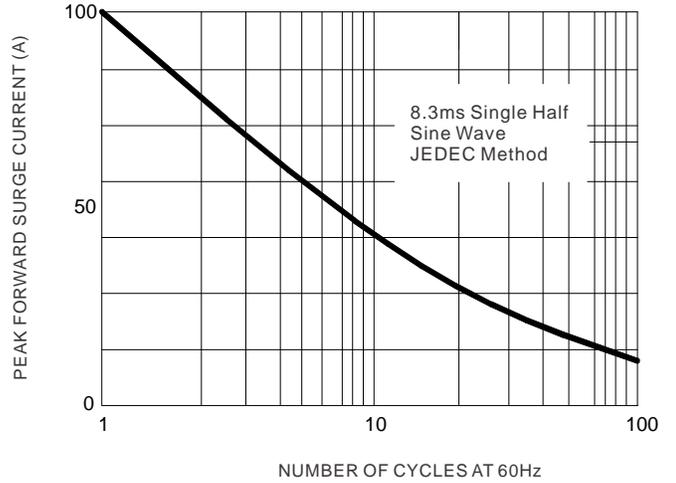


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

