



Features

- Average Forward Current: $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



SMB



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BR320_R1_00001	SMB	B32Z8	3000

Maximum Ratings And Electrical Characteristics

Rating 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	Limit	Units
Maximum Recurrent Peak Reverse Voltage	200	V
Maximum RMS Voltage	140	V
Maximum DC Blocking Voltage	200	V
Maximum Average Forward Rectified Current at $T_L=100^{\circ}C$	3.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80	A
Maximum Instantaneous Forward Voltage at 3.0A	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	0.02 2	$T_a=25^{\circ}C$ $T_a=100^{\circ}C$ mA
Typical Junction Capacitance (Note1)	250	PF
Typical Thermal Resistance $R_{\theta JL}$ (Note 2)	55	$^{\circ}C/W$
Operating Temperature Range T_J	-65 — +150	$^{\circ}C$
Storage Temperature Range T_{STG}	-65 — +150	$^{\circ}C$

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.4x0.4"(10x10mm) copper pad areas



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

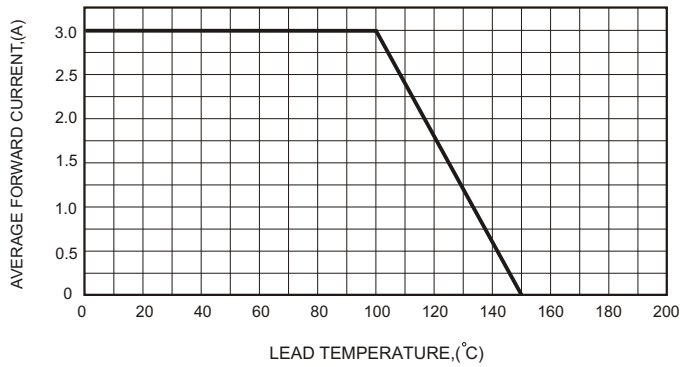


FIG.2-TYPICAL FORWARD CHARACTERISTICS

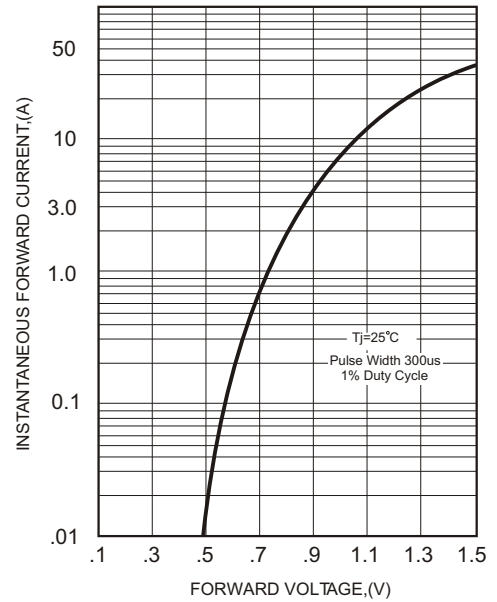


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

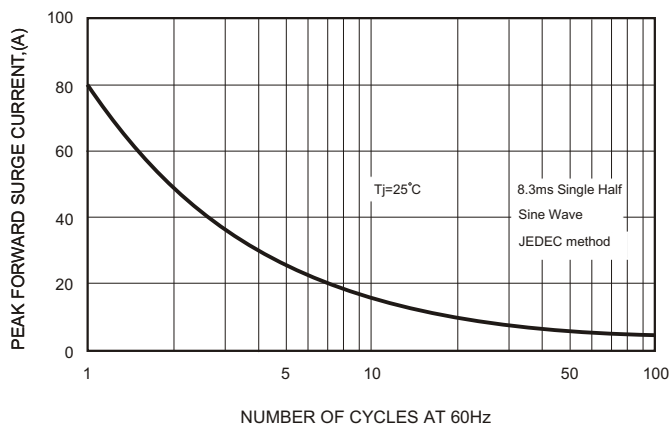


FIG.4-TYPICAL JUNCTION CAPACITANCE

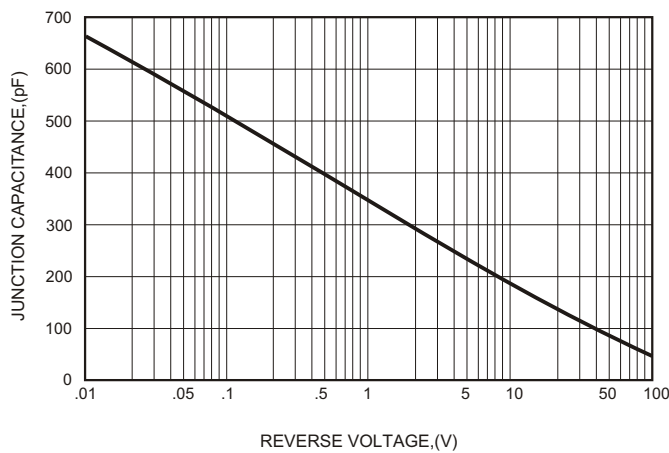
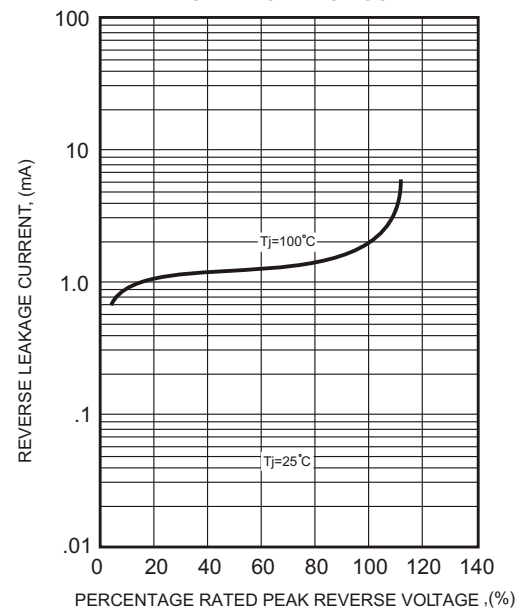


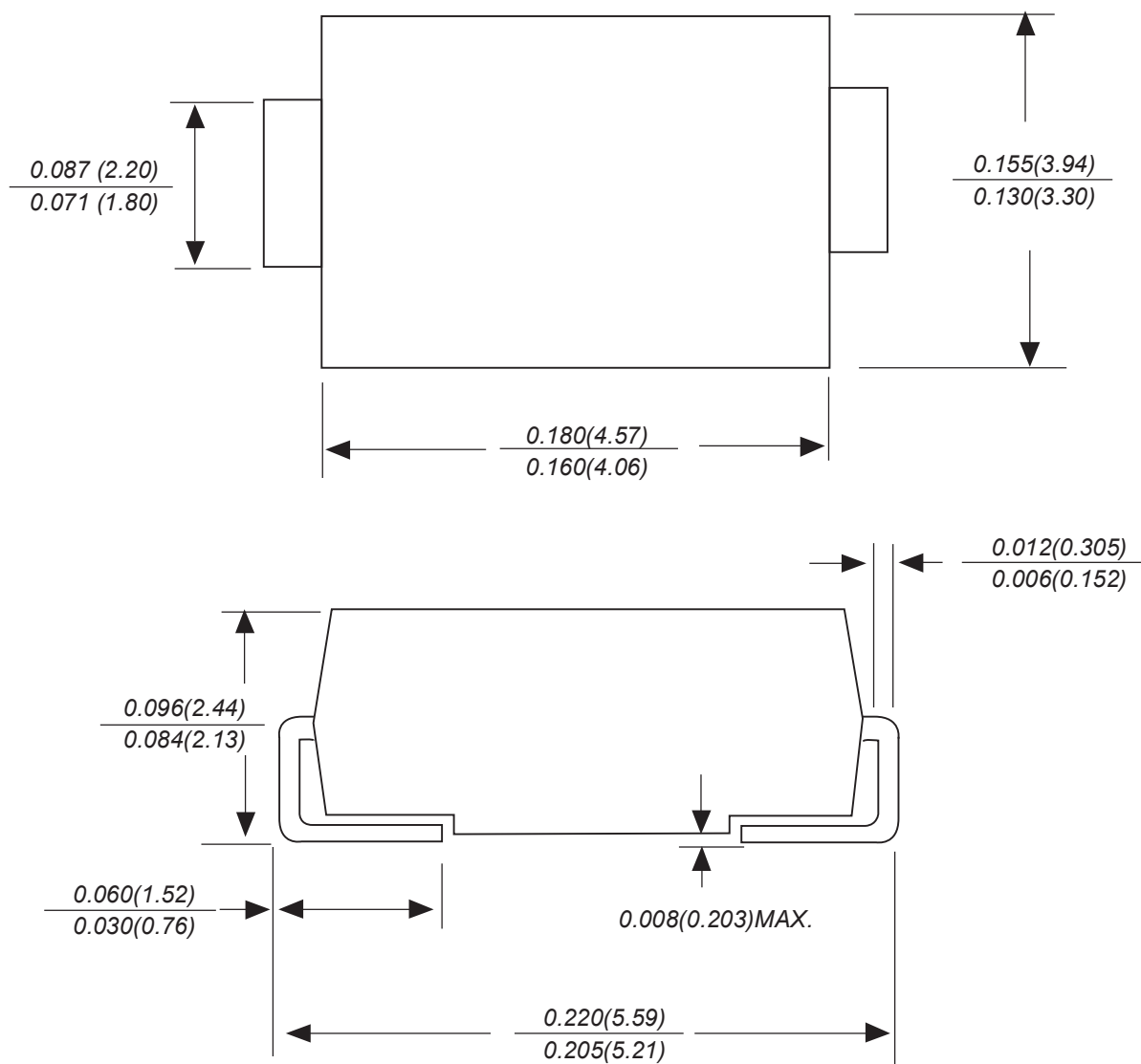
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

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Dimensions in inches and (millimeters)



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