Features

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



SMB (DO-214AA)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
B3100BE-13	SMB (DO-214AA)	SS310	3000

Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Test Conditions	Limit	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		100	V
Maximum RMS Voltage	V_{RMS}		70	V
Average Forward Current	$I_{F(AV)}$	60Hz Half-sine wave, Resistance load, FIG.1	3.0	A
Surge(Non-repetitive)Forward Current	I_{FSM}	60Hz Half-sine wave, 1 cycle, Ta=25°C	70	A
Junction Temperature	T_J		-50 ~ +150	°C
Storage Temperature	T_{STG}		-50 ~ +150	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Test Condition		Limit	Unit
Peak Forward Voltage	V_F	I_F=3.0A		0.85	V
Peak Reverse Current	I_{RRM1}	V_{RM}=V_{RRM}	Ta=25°C	0.1	mA
	I_{RRM2}		Ta=100°C	5	
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		55	°C/W
	$R_{\theta J-L}$	Between junction and terminal		20	

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

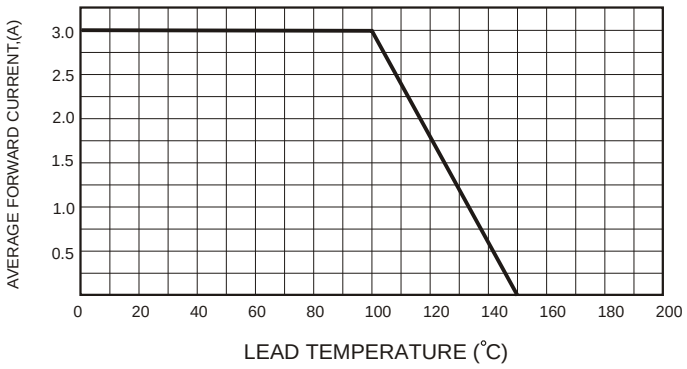


FIG.2-TYPICAL FORWARD CHARACTERISTICS

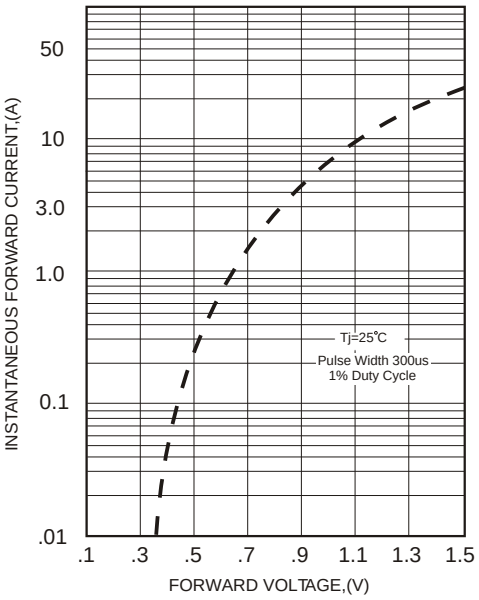


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

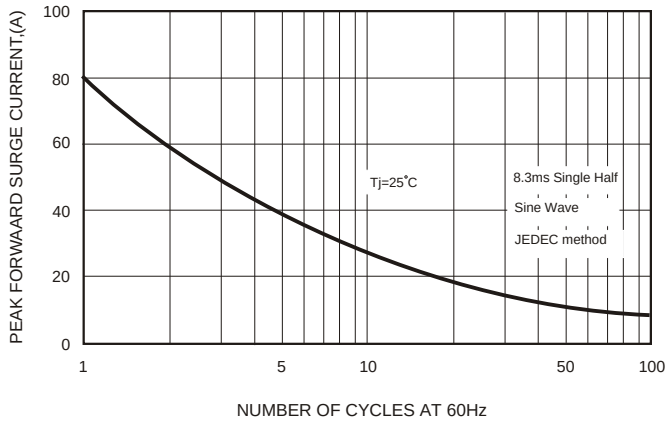


FIG.4-TYPICAL JUNCTION CAPACITANCE

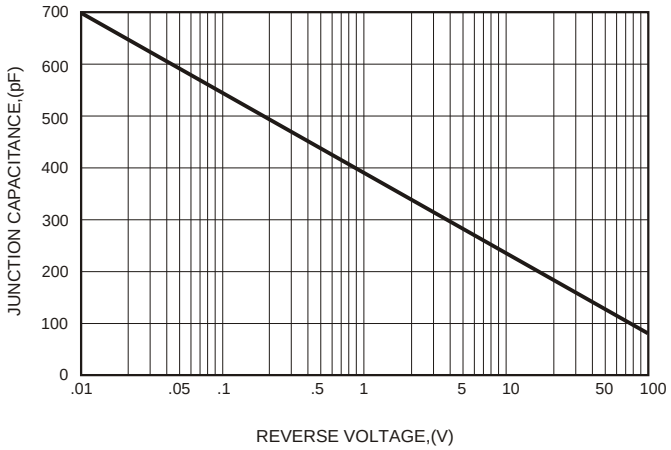
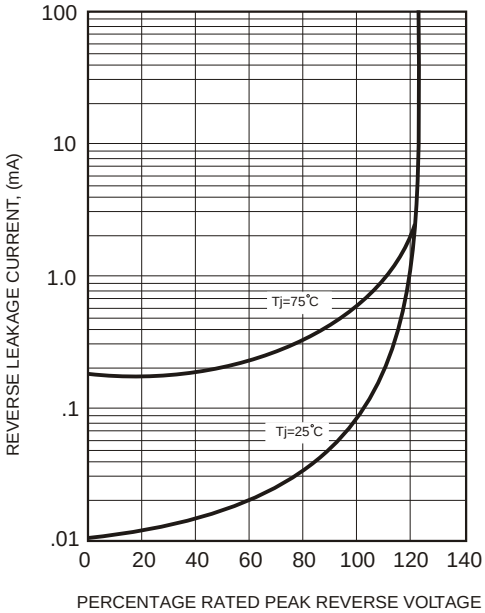
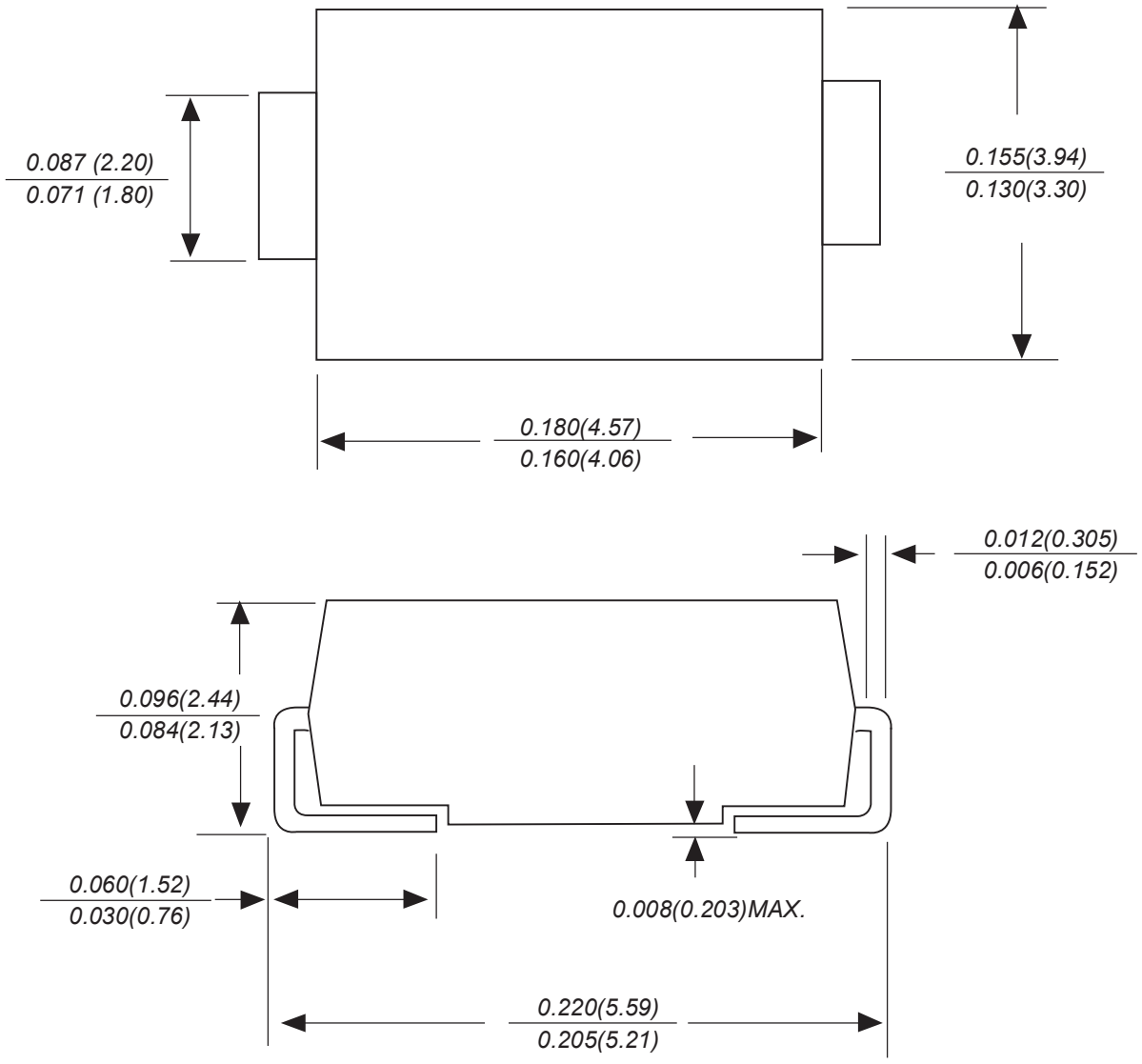


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMB(DO-214AA)



Dimensions in inches and (millimeters)

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HXY MOSFET:

HAZ4007-01H PESDLC2FD3V3BH TPSMB28A-VR 60N06 AQ15C-01FTG ESD5L5.0C-HXY HLY323BC1524L HSD15C.TCT HSEN2411D3 PESDNC2XD5VBL PJSD24CW_R1 HCEZ36V,L3F HSEN3611D3 HSG3D15B3.3MA ESD5LM5.0C-HXY LM393DR-HXY AZ4007-01H AZ4836-01L BV05C-H HACPDQC5V0-HF HPTVSUC3D5VB PESDSC2FD5VU TPSMB100CA-VR HESD36VD3B PESDNC2XD5VBF HESDSLC3V3D3B HRCLAMP3371ZCTFT HSTS521050B331 PJEC5V0M1FN2 RLSD32A121V