Features

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



SMC (DO-214AB)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
VS30BQ100-M3/9AT	SMC (DO-214AB)	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	80	A
Junction Temperature	T_J		-55 ~ +150	°C
Storage Temperature	T_{STG}		-55 ~ +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	0.02	mA
	I_{RRM2}		Ta=100°C	2	
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		60	°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 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

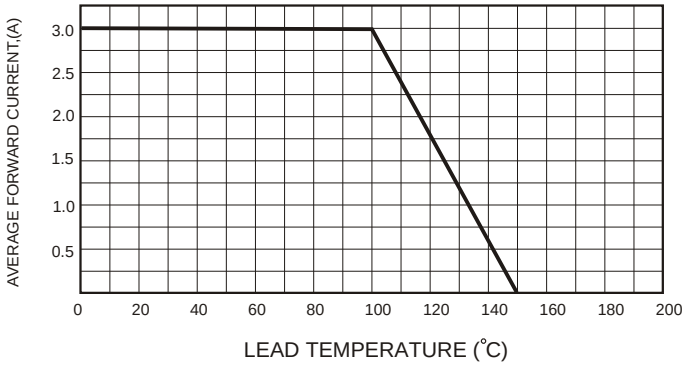


FIG.2-TYPICAL FORWARD CHARACTERISTICS

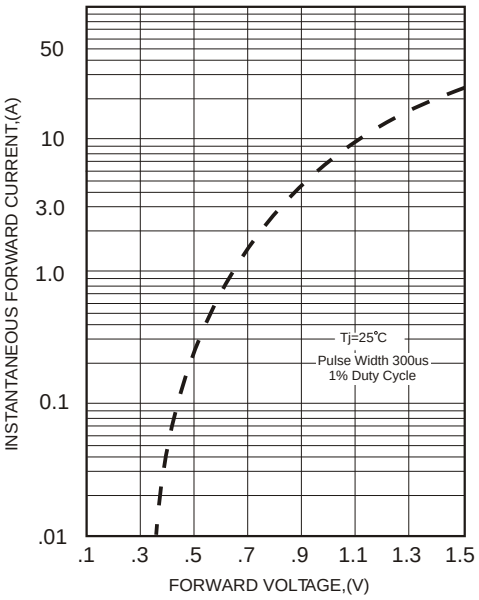


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

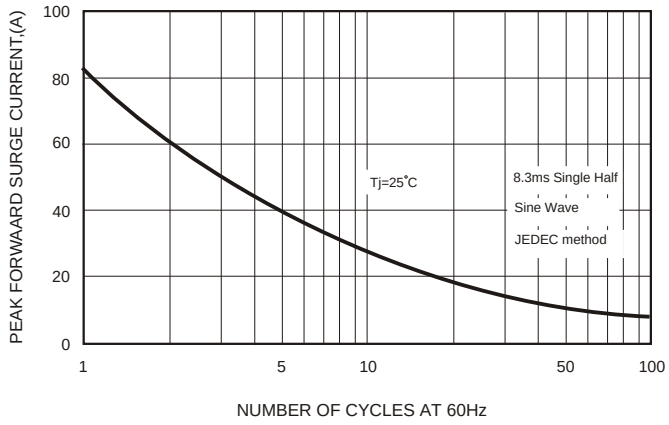


FIG.4-TYPICAL JUNCTION CAPACITANCE

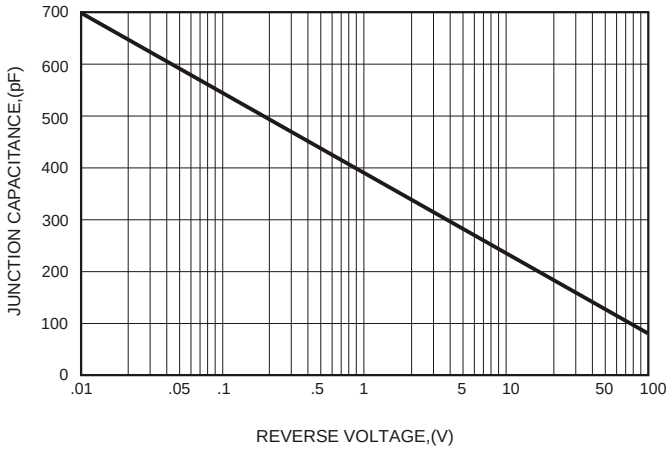
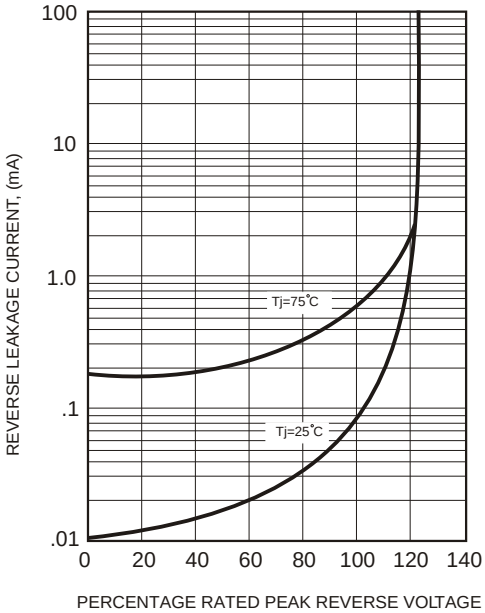
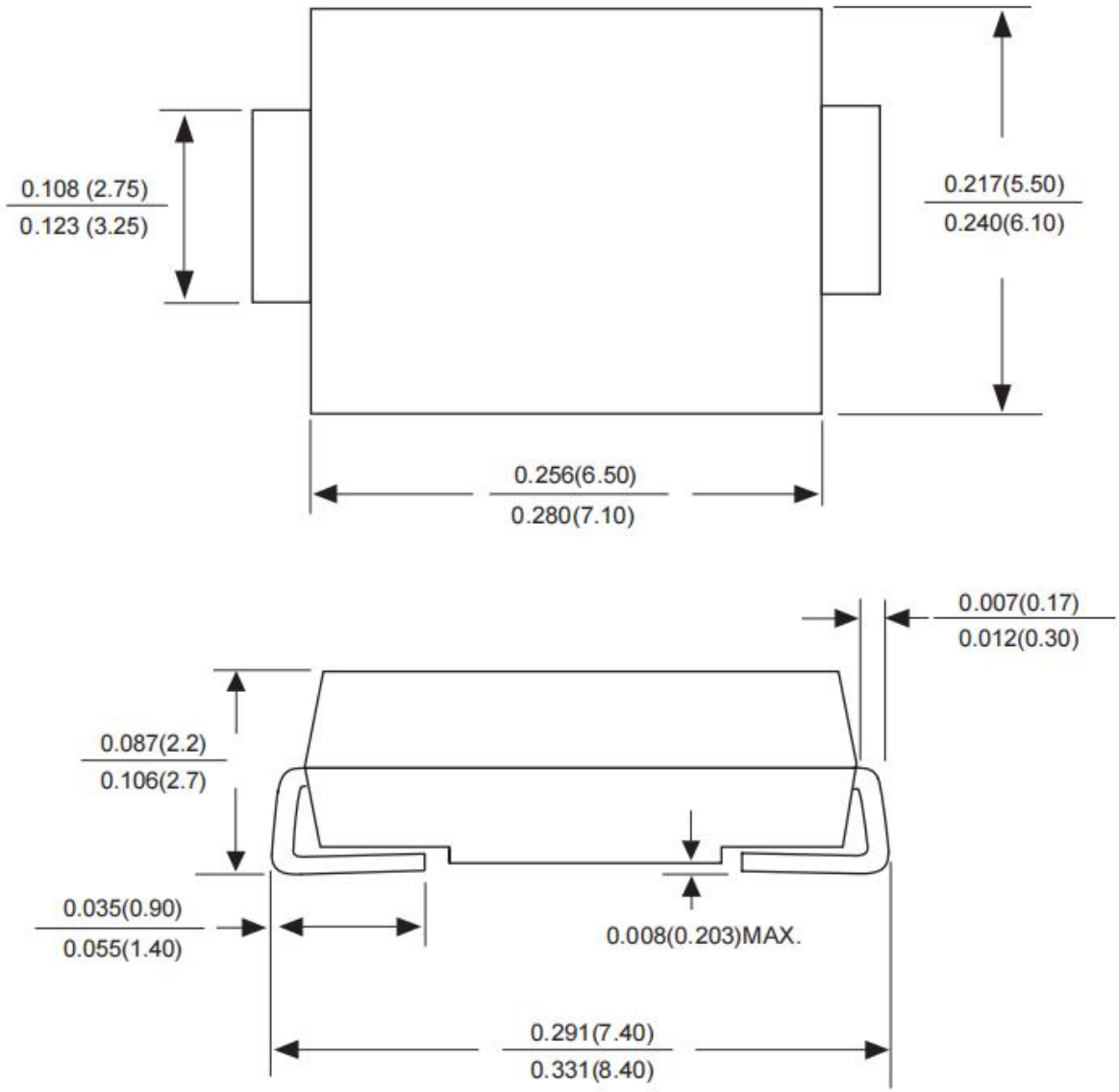


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMC(DO-214AB)



Dimensions in inches and (millimeters)

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HXY MOSFET:

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