VSMBRS340-M3/9AT
SCHOTTKY RECTIFIER DIODES

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)
VSMBRS340-M3/9AT	SMC (DO-214AB)	SS34	3000

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

Item	Symbol	Unit	Test Conditions	Limit
Repetitive Peak Reverse Voltage	V_{RRM}	V		40
Maximum RMS Voltage	V_{RMS}	V		28
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave Resistance load, FIG.1	3.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	80
Junction Temperature	T_J	℃		-55~+125
Storage Temperature	T_{STG}	℃		-55 ~ +150

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

Item	Symbol	Unit	Test Condition		Limit
Peak Forward Voltage	V_F	V	I_F=3.0A		0.55
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.1
	I_{RRM2}			Ta=100℃	5
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient		60
	$R_{\theta J-L}$		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

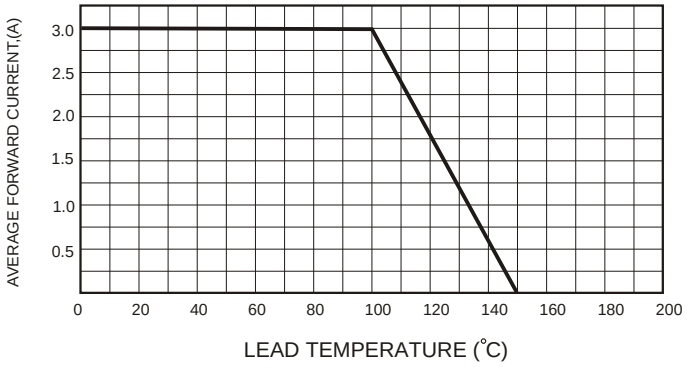


FIG.2-TYPICAL FORWARD CHARACTERISTICS

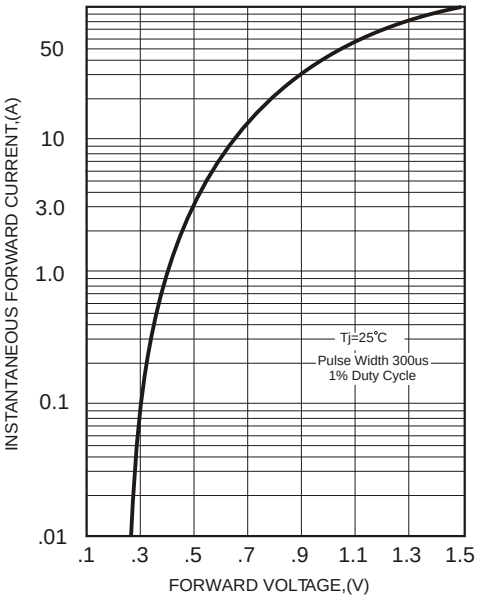


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

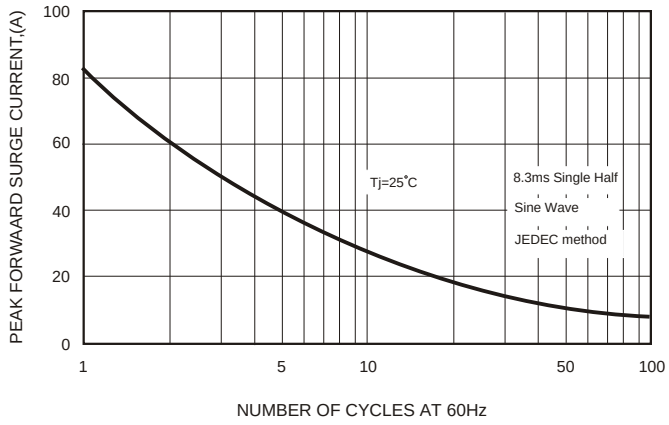


FIG.4-TYPICAL JUNCTION CAPACITANCE

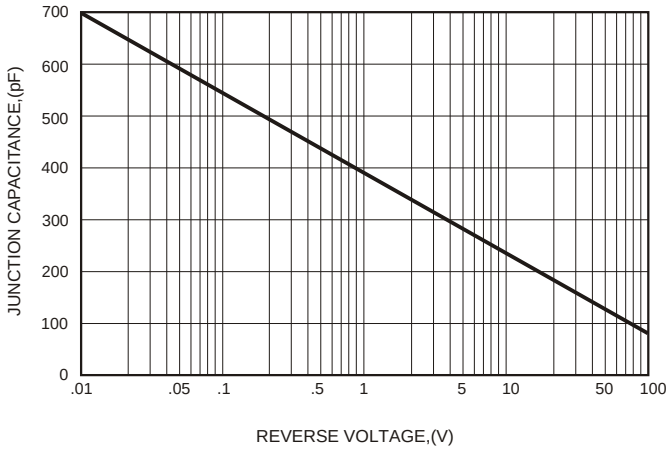
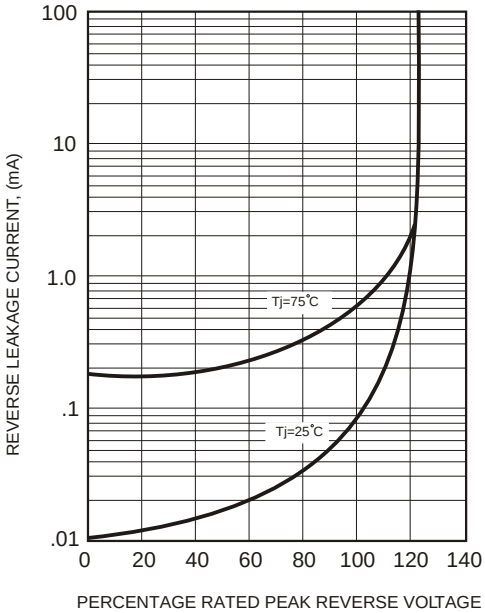
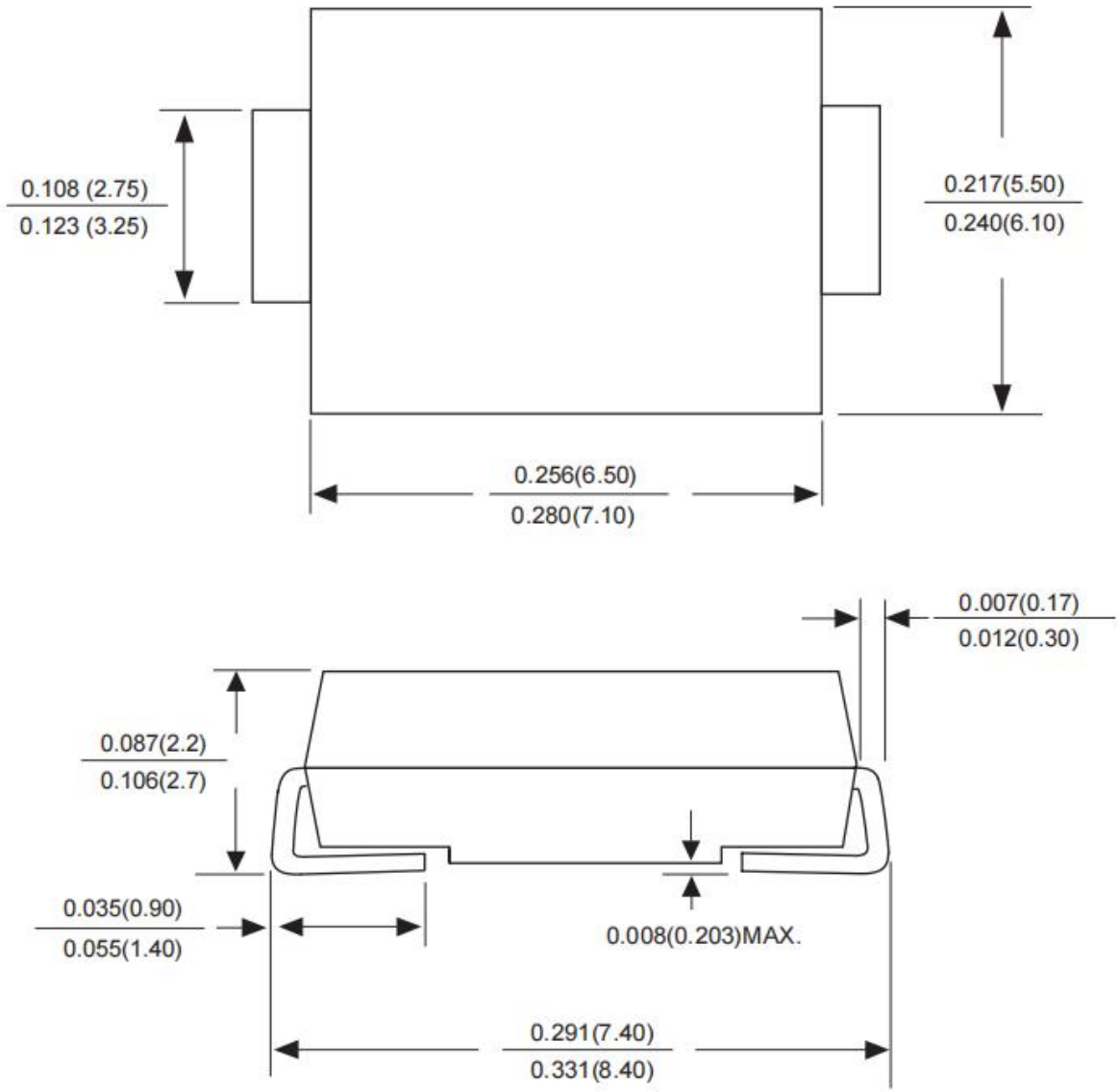


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMC(DO-214AB)



Dimensions in inches and (millimeters)

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HXY MOSFET:

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