XBS306P11R-G
SCHOTTKY RECTIFIER DIODES

Features

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



SMA
(DO-214AC)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
XBS306P11R-G	SMA (DO-214AC)	SS36	2000

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

Item	Symbol	Test Conditions	XBS306P11R-G	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		60	V
Maximum RMS Voltage	V_{RMS}		42	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		-55~+150	°C
Storage Temperature	T_{STG}		-55 ~ +150	°C

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

Item	Symbol	Test Condition		XBS306P11R-G	Unit
Peak Forward Voltage	V_F	I_F=3.0A		0.70	V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	Ta=25°C	0.5	mA
	I_{RRM2}		Ta=100°C	10	
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		75	°C/W
	$R_{\theta J-L}$	Between junction and terminal		17	

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: FORWARD CURRENT DERATING CURVE

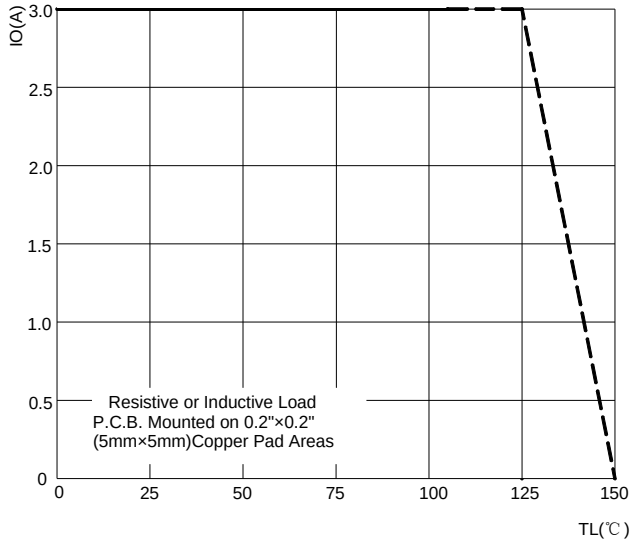


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

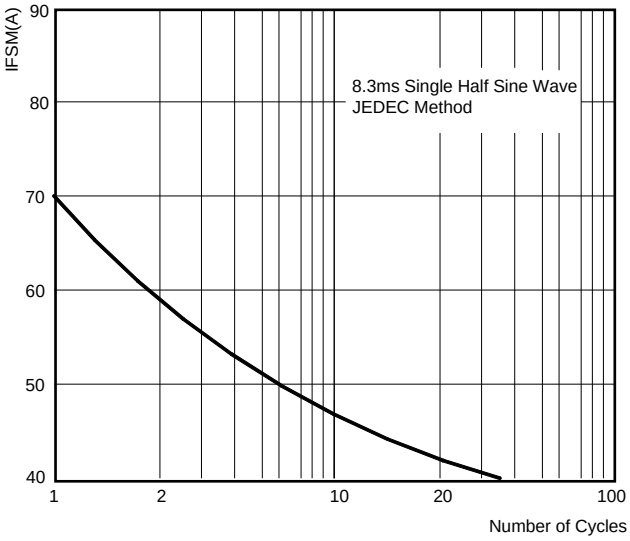


FIG.3: TYPICAL FORWARD CHARACTERISTICS

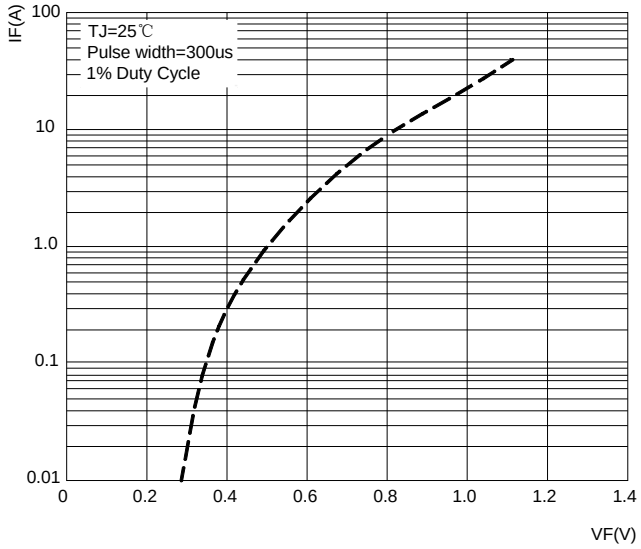
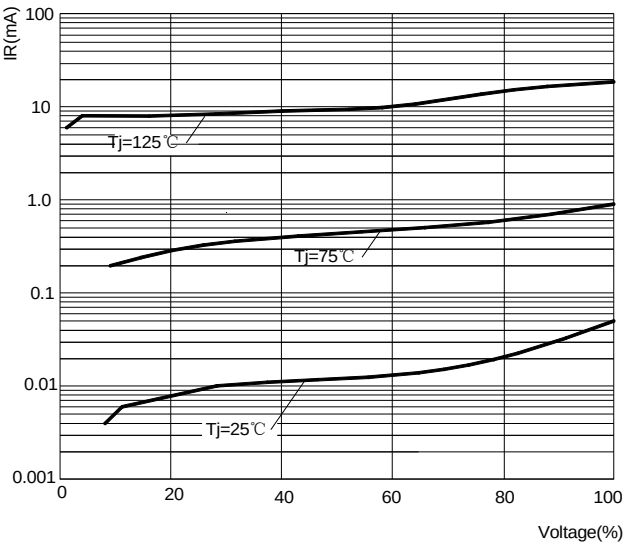
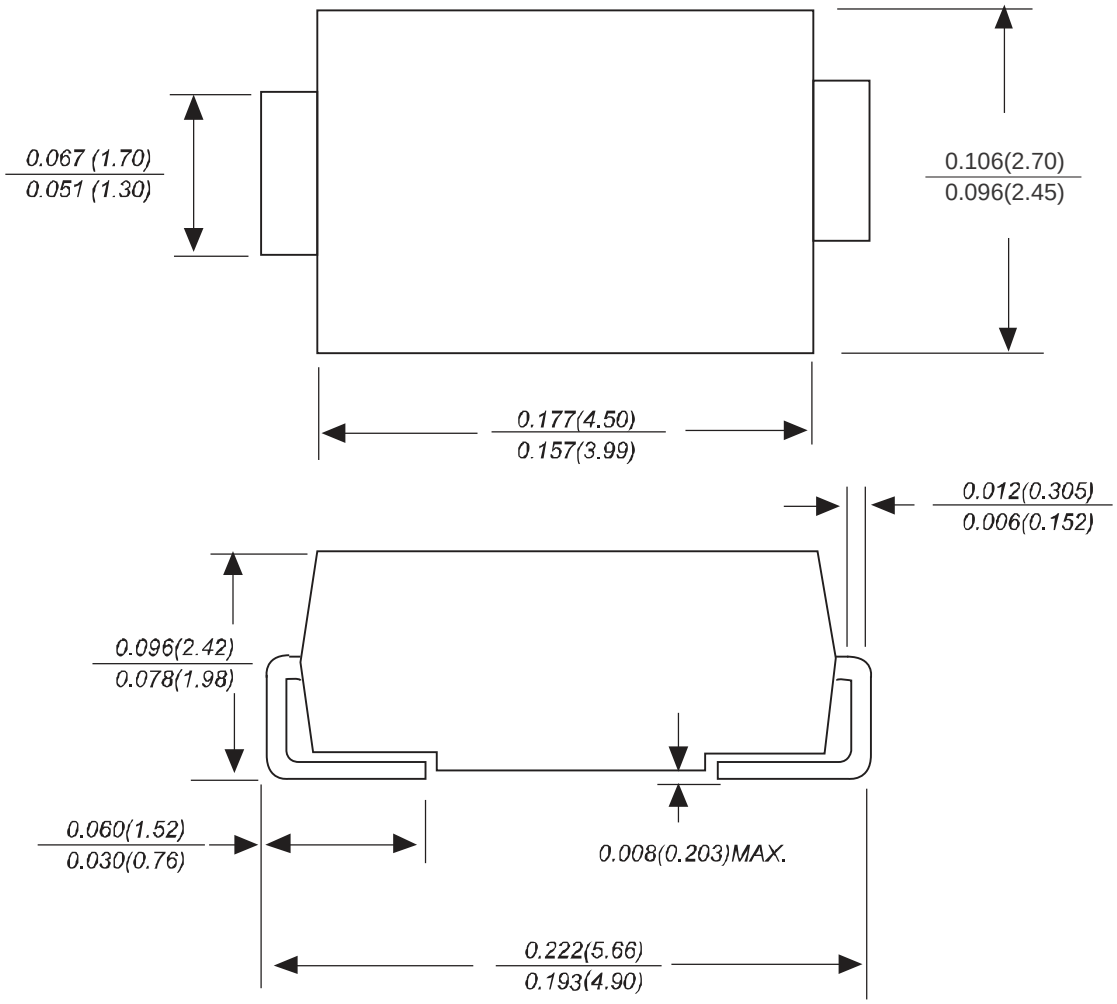


FIG.4：TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMA(DO-214AC)



Dimensions in inches and (millimeters)

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HXY MOSFET:

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