



## Features

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



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HNRVTSS3100ET3G	SMB (DO-214AA)	SS310	3000

**SMB  
(DO-214AA)**



## Maxmim Ratings ( $T_a=25^\circ C$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	HNRVTSS3100ET3G
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		100
MaximumRMS Voltage	$V_{RMS}$	V		70
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, $T_a=25^\circ C$	70
Junction Temperature	$T_J$	$^\circ C$		-50~+150
Storage Temperature	$T_{STG}$	$^\circ C$		-50 ~ +150

## Electrical Charcteristics ( $T_a=25^\circ C$ unless otherwise specified)

Item	Symbol	Unit	Test Condition		HNRVTSS3100ET3G
Peak Forward Voltage	$V_F$	V	$I_F=3.0A$		0.85
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$	0.1
	$I_{RRM2}$			$T_a=100^\circ C$	5
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ C/W$	Between junction and ambient		55
	$R_{\theta J-L}$		Between junction and terminal		20

## Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas



## Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

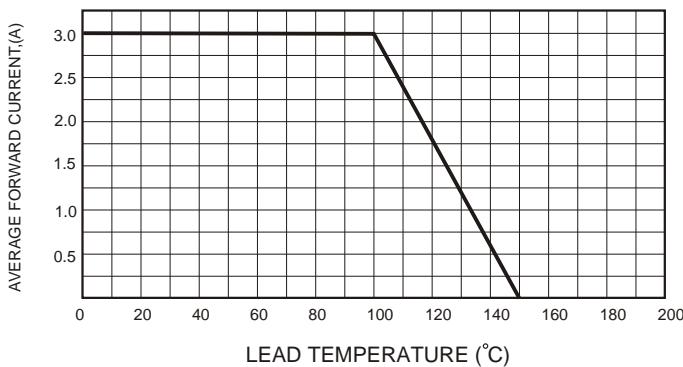


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

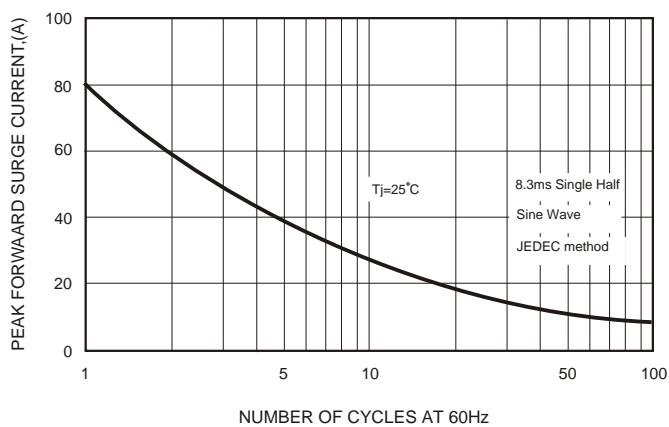


FIG.4-TYPICAL JUNCTION CAPACITANCE

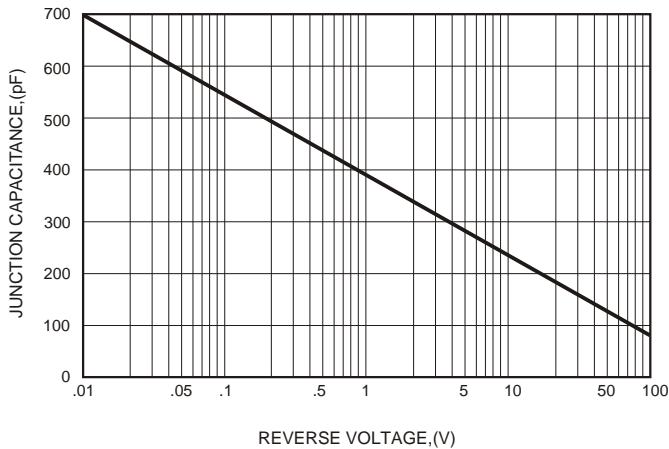


FIG.2-TYPICAL FORWARD CHARACTERISTICS

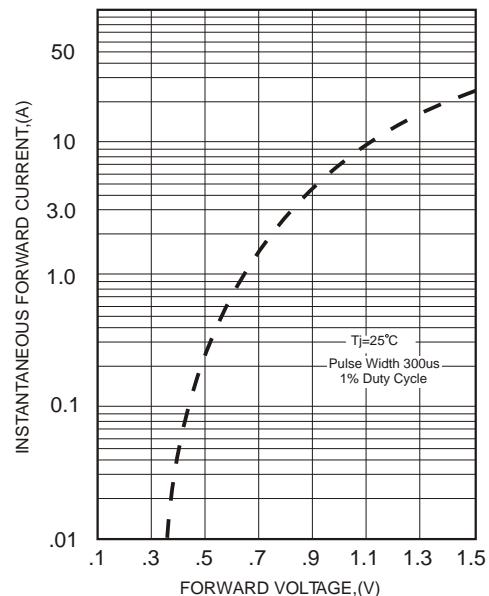
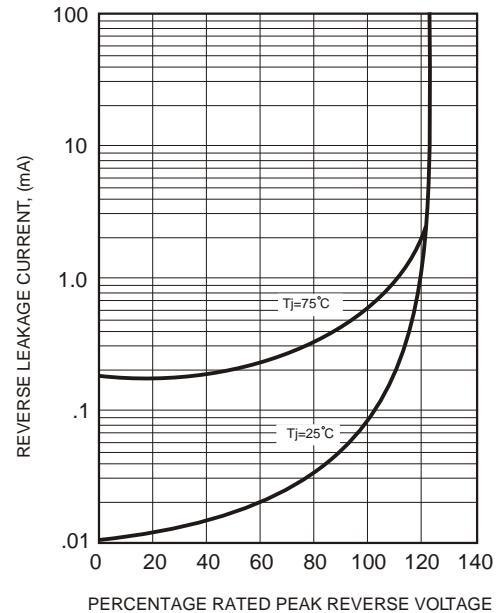


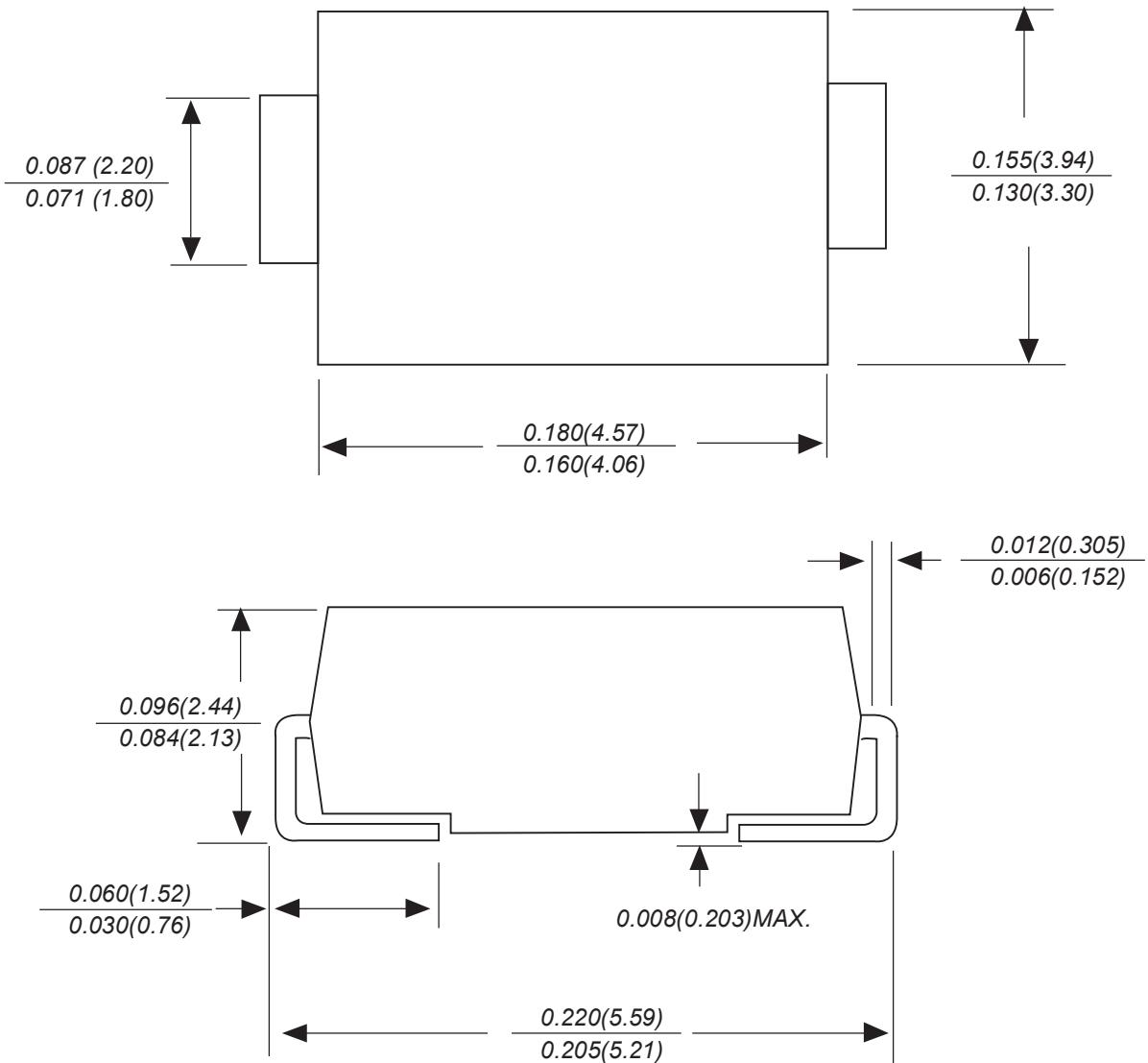
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





### Package Outline Dimensions

SMB(DO-214AA)





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