



Features

- Average Forward Current: $I_{F(AV)}=2A$
- Polarity: Color band denotes cathode



SMA



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HNRVUS2MA	SMA	US2M	2000

Maxmim Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	HNRVUS2MA
Repetitive Peak Reverse Voltage	V_{RRM}	V		1000
Maximum RMS Voltage	V_{RMS}	V		700
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, FIG.1	2.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25°C	60
Junction Temperature	T_J	°C		-55 ~ +150
Storage Temperature	T_{STG}	°C		-55 ~ +150

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition	HNRVUS2MA
Peak Forward Voltage	V_F	V	$I_F=2.0A$	1.85
Maximum reverse recovery time	T_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	75
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	0.05
	I_{RRM2}		$T_a=100^{\circ}C$	0.15
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient	65
	$R_{\theta J-L}$		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
CHARACTERISTICS

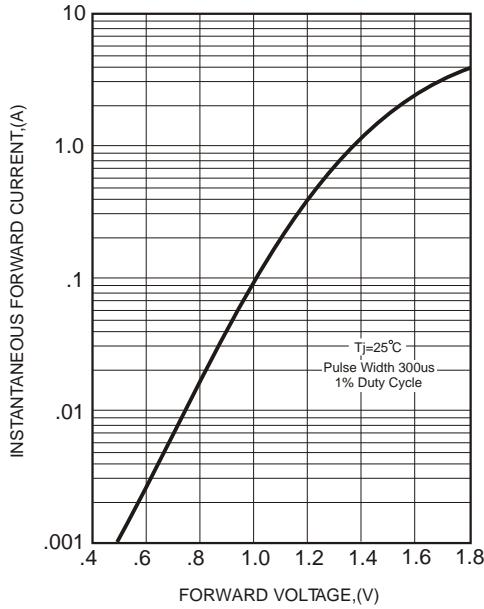
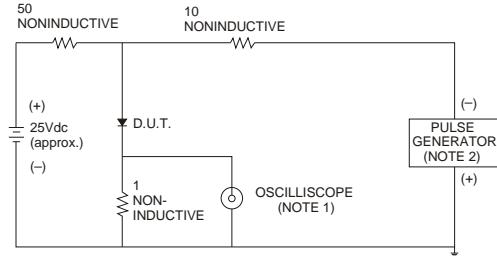


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE
RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.

2. Rise Time= 10ns max., Source Impedance= 50 ohms.

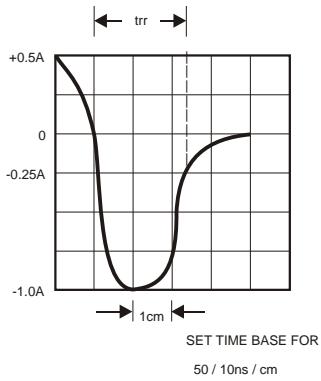


FIG.2-TYPICAL FORWARD CURRENT
DERATING CURVE

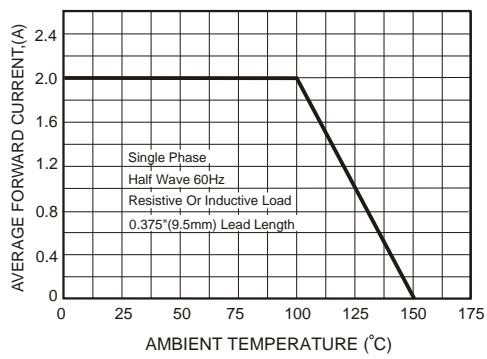


FIG.4-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

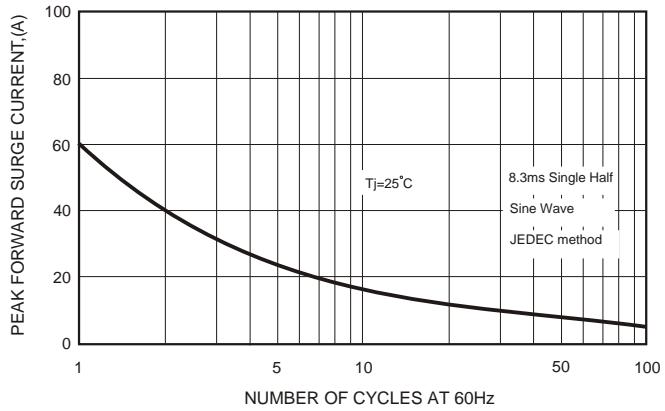
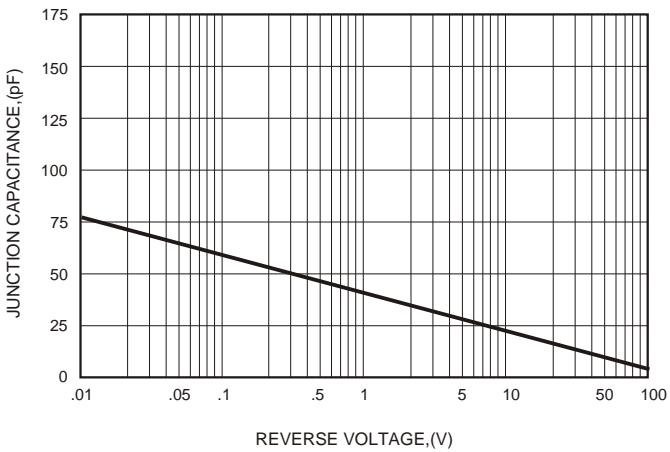


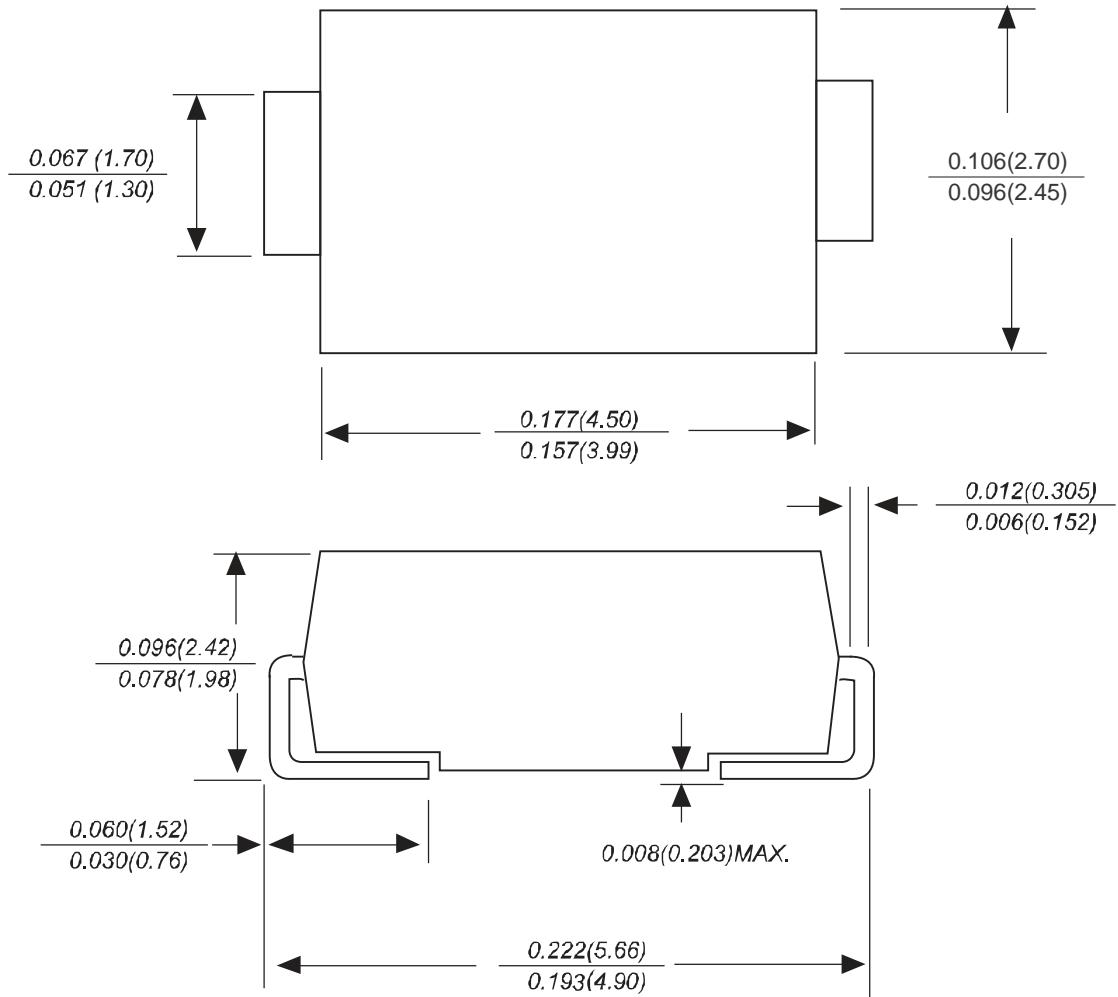
FIG.5-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions

SMA(DO-214AC)



Dimensions in inches and (millimeters)



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