



Features

- Average Forward Current: $I_{F(AV)}=1A$
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HUS1MHE3AH	SMA (DO-214AC)	US1M	2000



SMA
(DO-214AC)



Maxmim Ratings ($T_a=25$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	US1M
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, $T_L=75^\circ C$	1.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ C$	30
Operation Junction and Storage Temperature Range	T_J, T_{STG}	°C		-55 ~ +150

Electrcal Charcteristics ($T_a=25$ unless otherwise specified)

Item	Symbol	Unit	Test Condition	US1M
Peak Forward Voltage	V_F	V	$I_F=1.0A$	1.7
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}	μA	$V_{RM}=V_{RRM}$	5
	I_{RRM2}		$T_a=125^\circ C$	50
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C / W	Between junction and ambient	55
	$R_{\theta J-L}$		Between junction and terminal	25

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

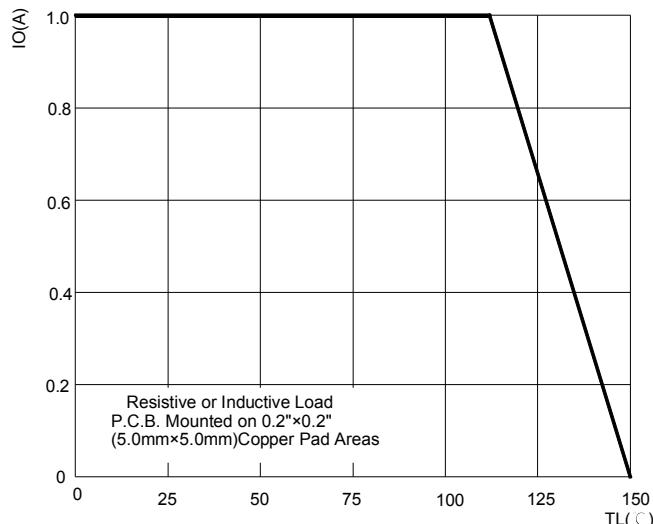


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

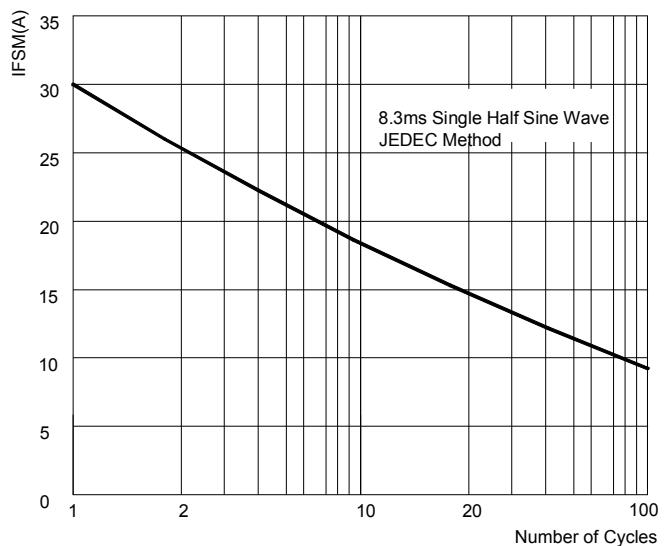


FIG.3: TYPICAL FORWARD CHARACTERISTICS

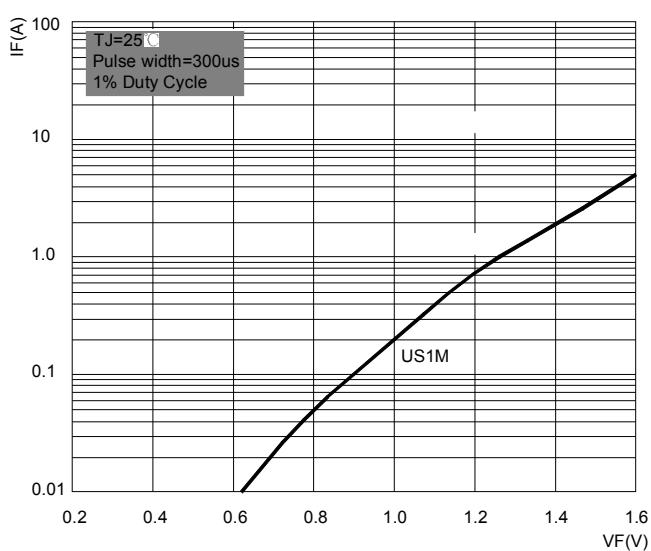


FIG.4: TYPICAL REVERSE CHARACTERISTICS

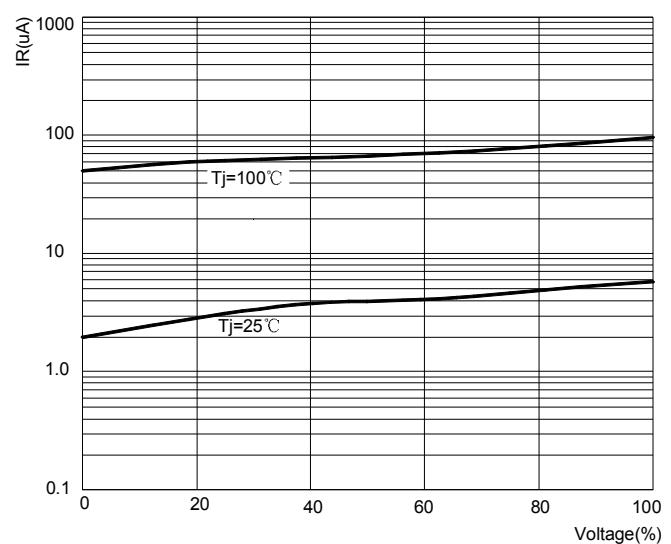
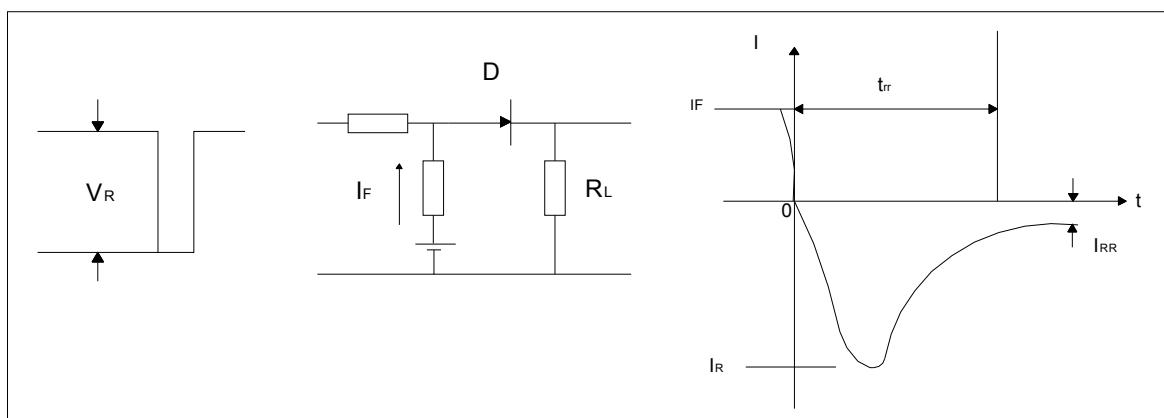
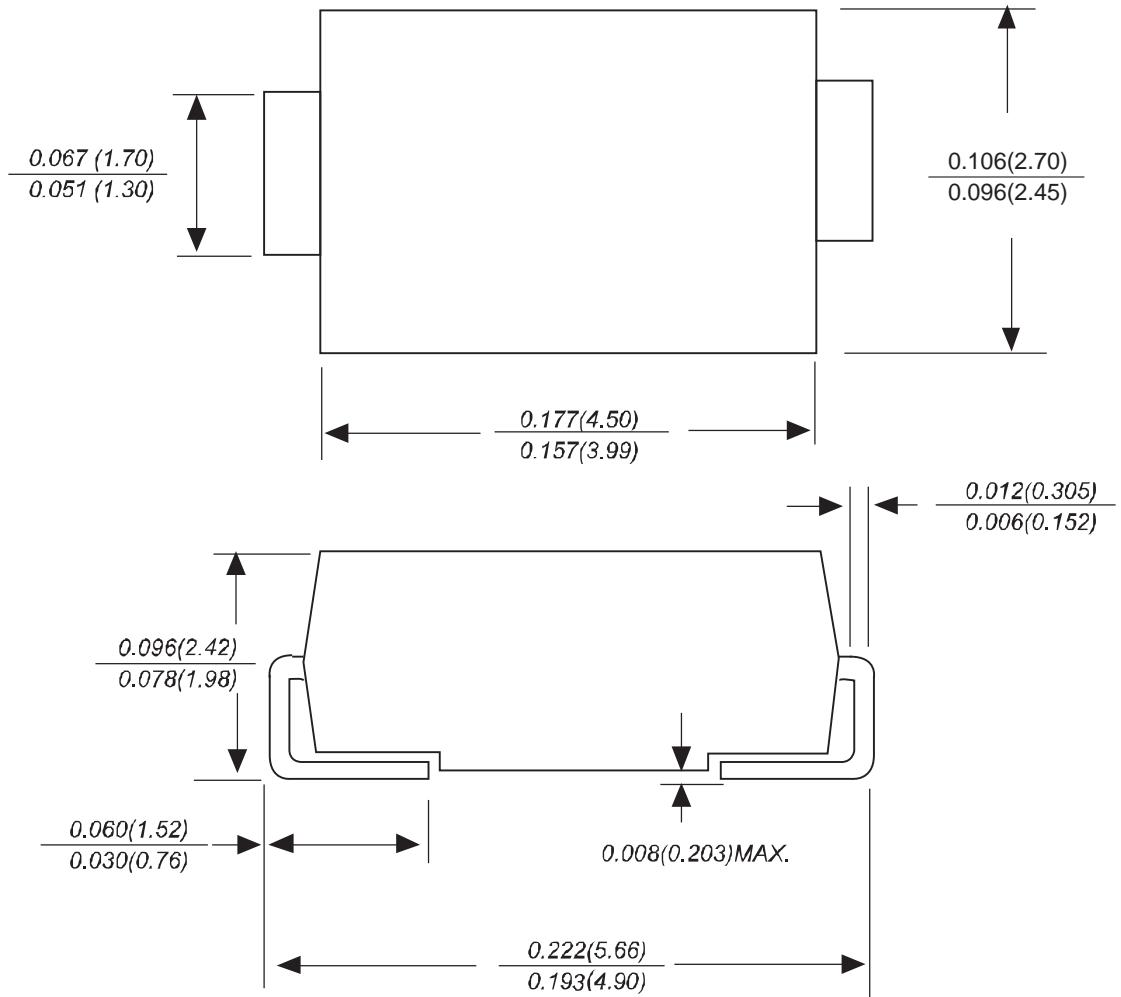


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMA (DO-214AC) Package Outline Dimensions



Dimensions in inches and (millimeters)



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