



Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
US1G-E3/61T	SMA (DO-214AC)	US1G	2000



Maximum Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	US1G-E3/61T
Repetitive Peak Reverse Voltage	V_{RRM}	V		400
Maximum RMS Voltage	V_{RMS}	V		280
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}	$^{\circ}C$		-55 ~ +150

Electrical Characteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition		US1G-E3/61T
Peak Forward Voltage	V _F	V	I _F =1.0A		1.3
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		50
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	5
	I _{RRM2}			T _a =125℃	50
Thermal Resistance(Typical)	R _{θJ-A}	℃/ W	Between junction and ambient		55
	R _{θJ-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

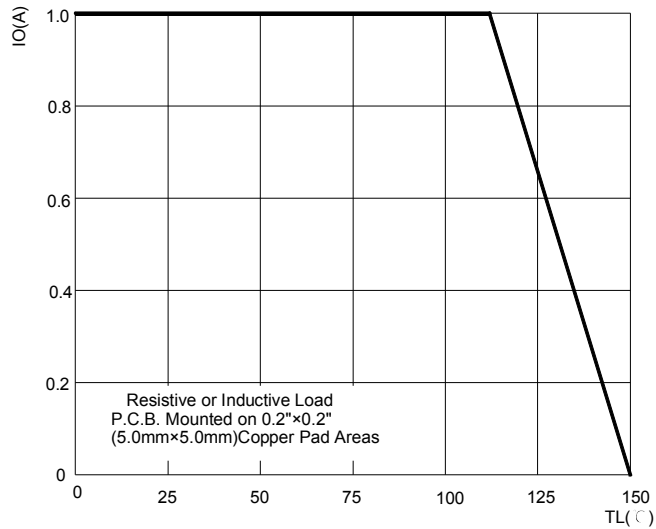


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

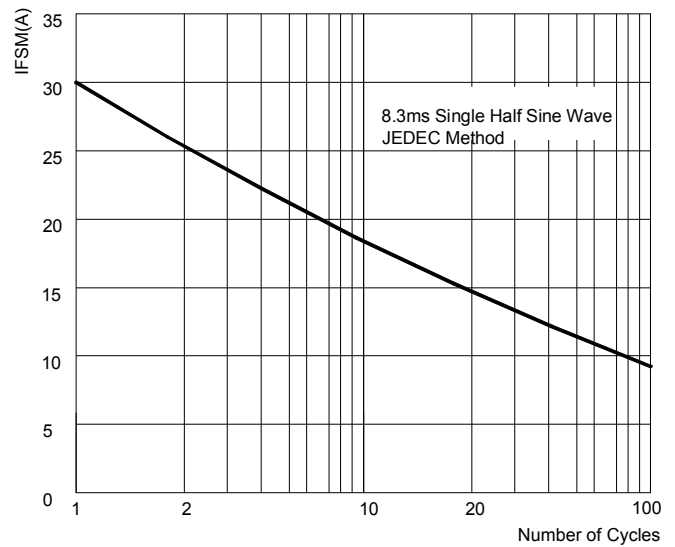


FIG.3: TYPICAL FORWARD CHARACTERISTICS

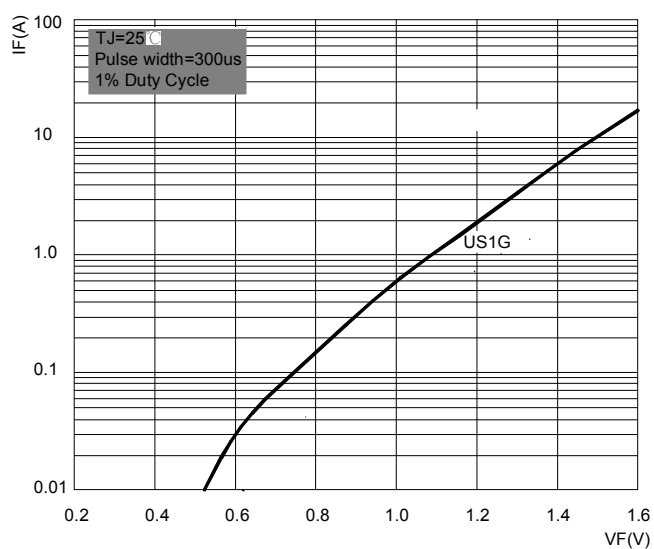


FIG.4: TYPICAL REVERSE CHARACTERISTICS

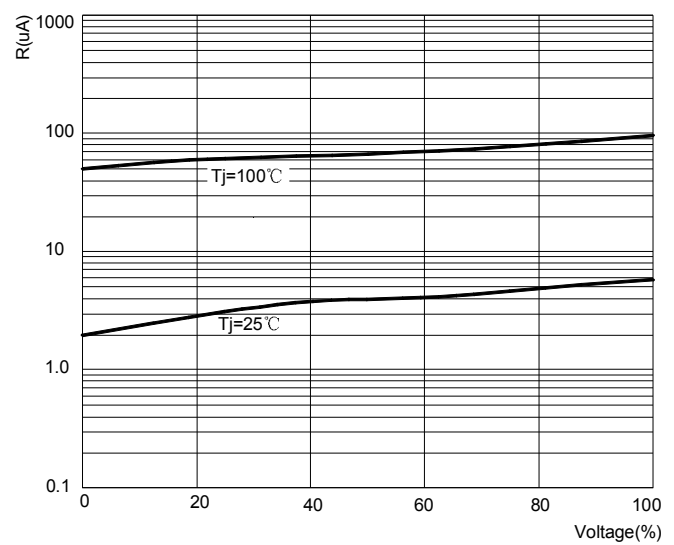
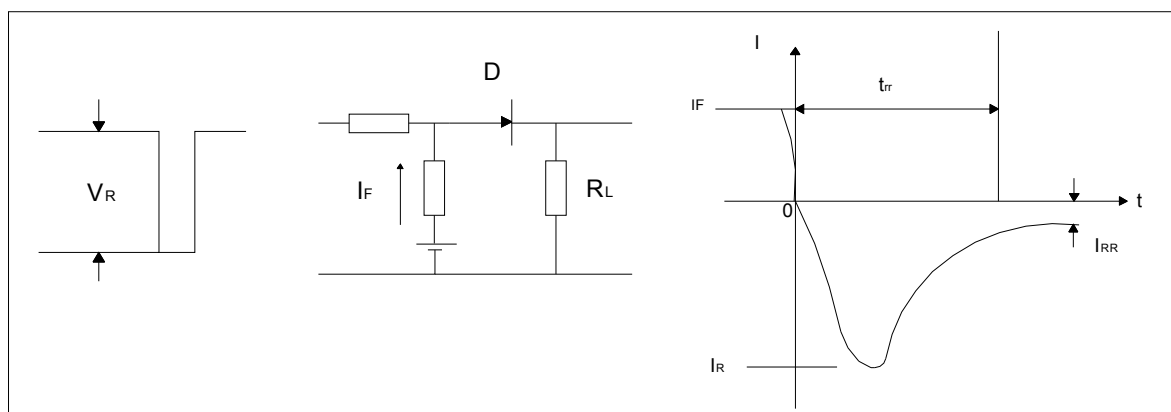
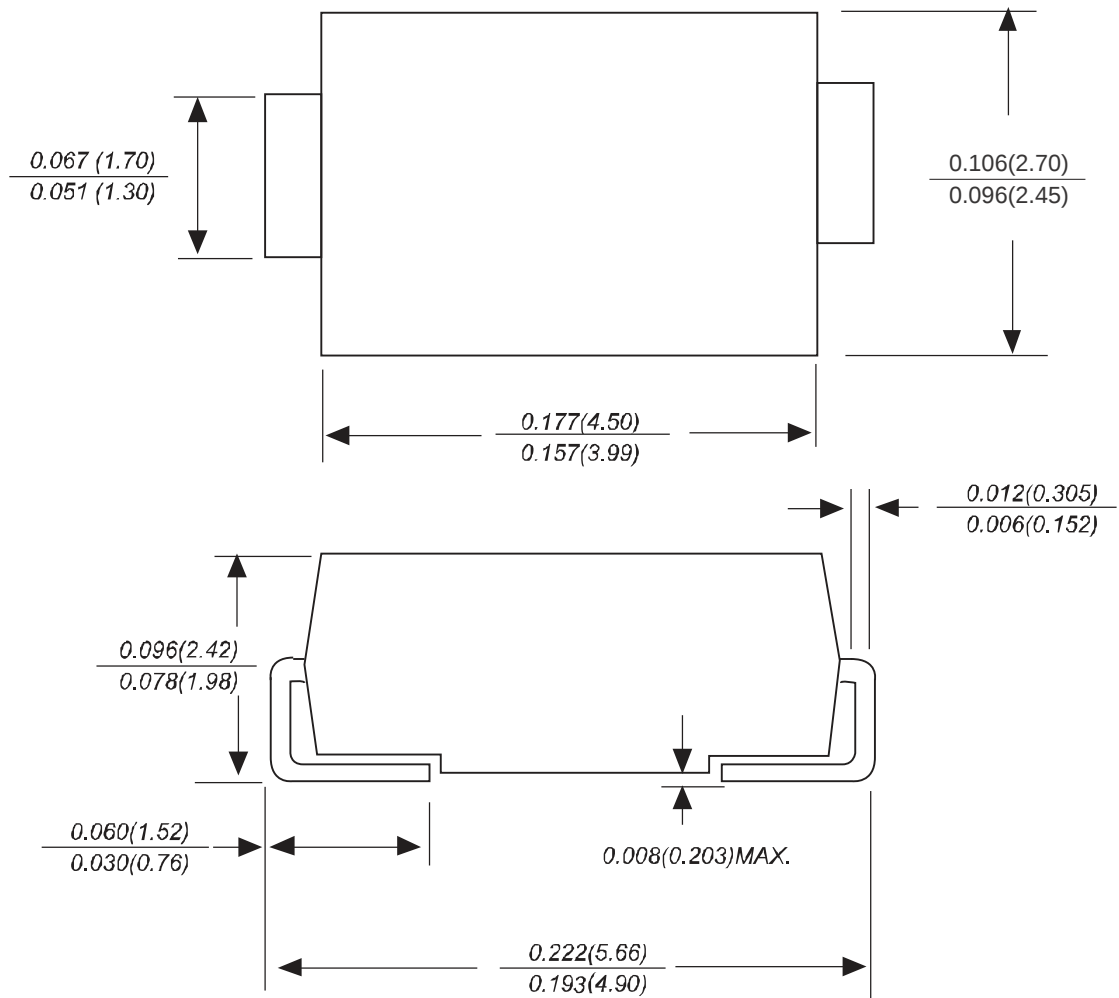


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Package Outline Dimensions
SMA(DO-214AC)



Dimensions in inches and (millimeters)



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