



FEATURES

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



SMA

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
US2A-US2M	SMA	US2★	2000

★:FromA-M



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	US2							
				A	B	D	E	G	J	K	M
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	300	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	210	280	420	560	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~+125				-55~+150			
Storage Temperature	T_{STG}	°C		-55 ~ +150							

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition	US2							
				A	B	D	E	G	J	K	M
Peak Forward Voltage	V_F	V	$I_F=5.0A$	1.0			1.3		1.85		
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$							
	I_{RRM2}			$T_a=100^\circ C$							
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

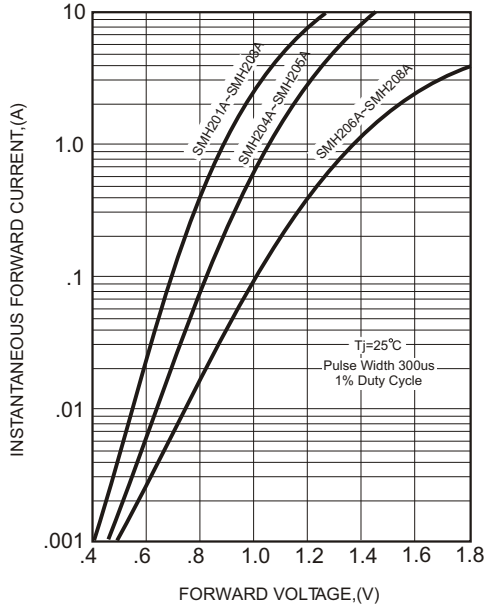


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

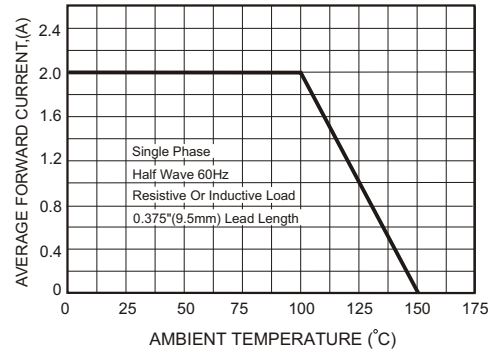


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

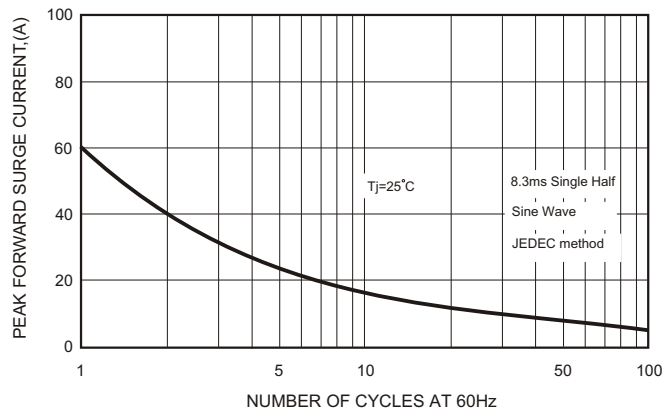
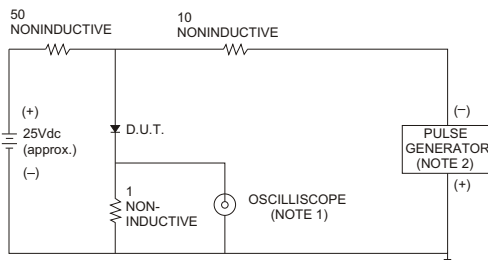


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

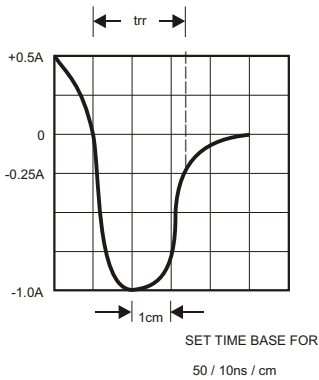
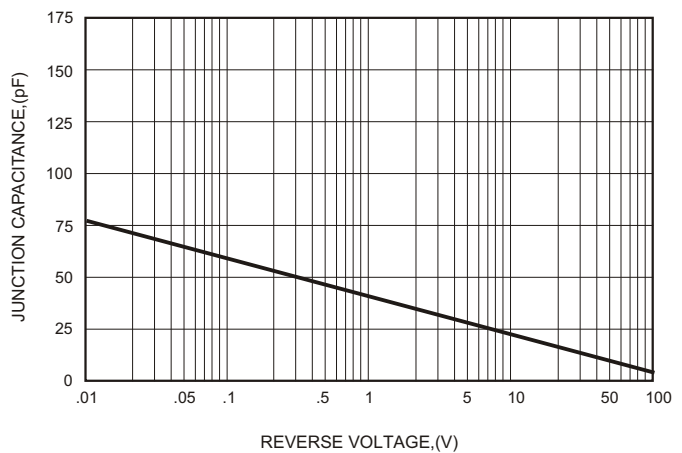
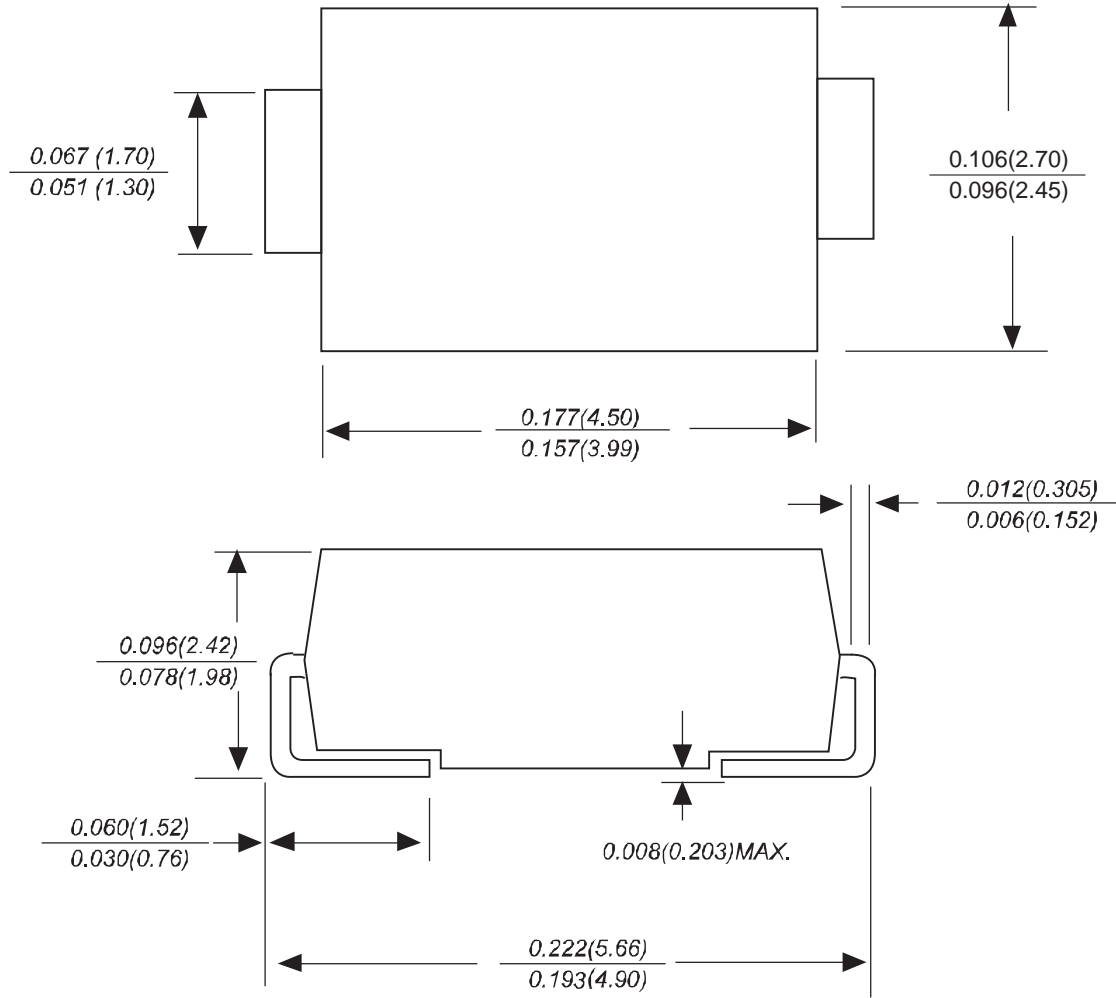


FIG.5-TYPICAL JUNCTION CAPACITANCE





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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