

FEATURES

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

Package Marking and Ordering Information

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







MAXIMUM RATINGS (Ta=25 unless otherwise noted)

14		Unit	Test Conditions	US2								
Item	Symbol			Α	В	D	Е	G	J	K	М	
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	300	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	٧		35	70	140	210	280	420	560	700	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave , Resistance load , FIG.1	2.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave, 1 cycle,Ta=25℃	60								
Junction Temperature	TJ	$^{\circ}$		-55~+125 -55~+150								
Storage Temperature	T _{STG}	$^{\circ}\!\mathbb{C}$		-55 ~ +150								

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Item	0	11:4:4	Test Condition		US2								
	Symbol	Unit			Α	В	D	Е	G	J	K	M	
Peak Forward Voltage	V_{F}	٧	I _F =		1.0		1	.3	1.85				
Peak Reverse Current -	I _{RRM1}	mA	\/ _\/	T _a =25°C	0.05								
	I _{RRM2}	IIIA	$V_{RM}=V_{RRM}$	T _a =100°C		0.15							
Thermal	$R_{\theta J-A}$	℃/	Between junct	tween junction and ambient		65							
Resistance(Typical)	$R_{\theta J-L}$	W	Between junct	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

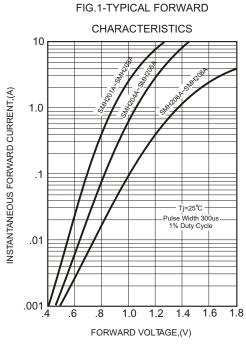
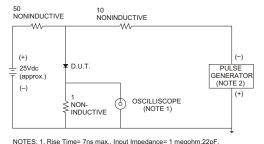


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



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

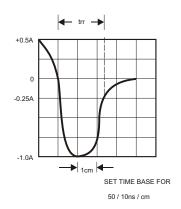


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

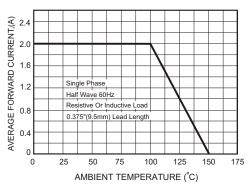


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

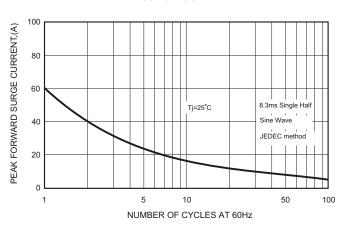
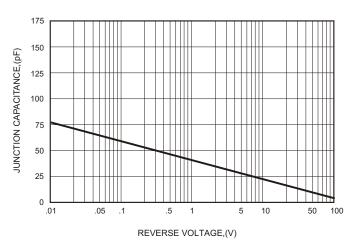
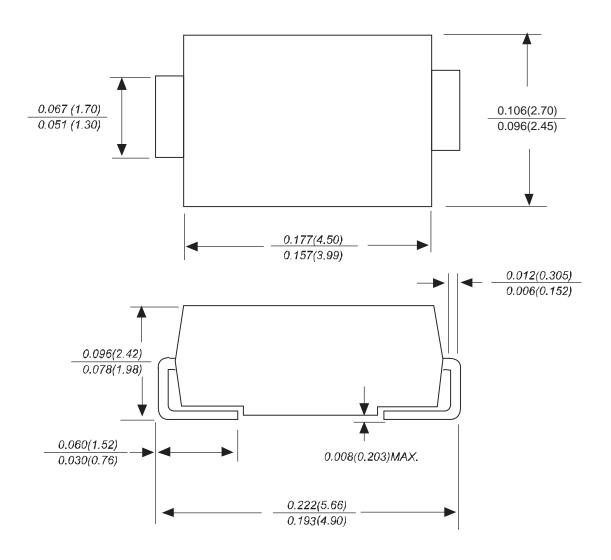


FIG.5-TYPICAL JUNCTION CAPACITANCE





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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