

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
US2A-US2M	SMA (DO-214AC)	US2x	2000







Maxmim Ratings (Ta=25 unless otherwise noted)

И	Symbol	Unit	Test Conditions	US2								
Item				Α	В	D	Е	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)}	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	${\mathbb C}$		-5	-55~+125 -55~+150							
Storage Temperature	T _{STG}	$^{\circ}\!$		-55 ~ +150								

Electrical Charcteristics (Ta=25 unless otherwise specified)

Item	0	1114	Test Condition		US2								
	Symbol	Unit			Α	В	D	Е	G	J	K	М	
Peak Forward Voltage	V _F	٧	l _F :		1.0		1	.3	1.85				
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25°C	0.05								
	I _{RRM2}	IIIA		T _a =100°C			0.15						
Thermal	$R_{\theta J-A}$	℃/	Between junct	65									
Resistance(Typical)	R _{θJ-L}	W	Between junct	tion 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

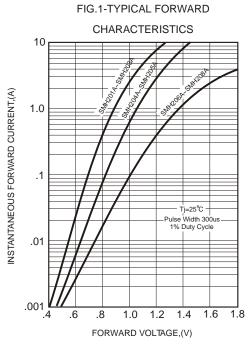
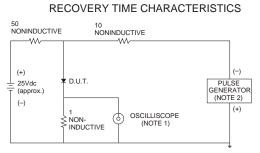


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE



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

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

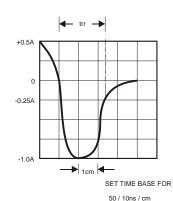


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

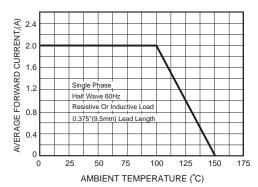


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

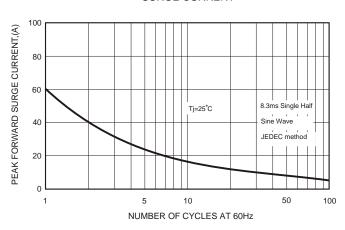
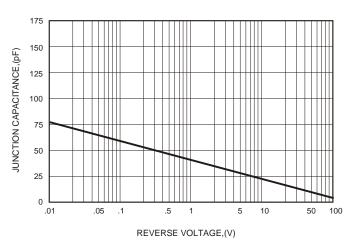
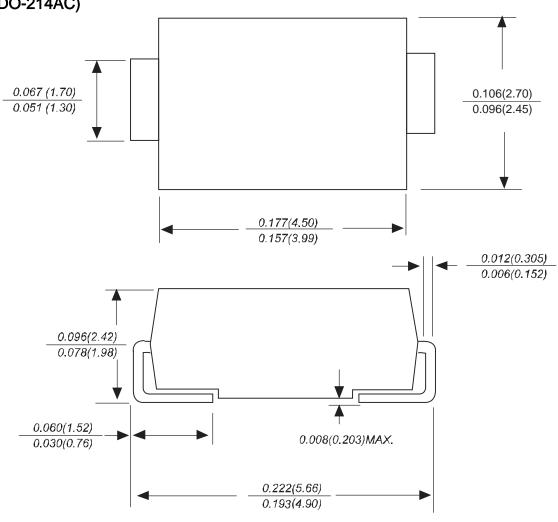


FIG.5-TYPICAL JUNCTION CAPACITANCE





Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)



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