

### **Features**

- Average Forward Current: IF(AV)=1A
- Polarity: Color band denotes cathode

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
S2A-S2M	SMA (DO-214AC)	S2x	5000			

SMA

(DO-214AC) 

-0

x: From A-M

# Maxmim Ratings (Ta=25 unless otherwise noted)

					S2							
ltem	Symbol	Unit	Test Conditions	Α	В	D	G	J	Κ	М		
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		50	100	200	400	600	800	1000		
Maximum RMS Voltage	VRMS	V		35	70	140	280	420	560	700		
Average Forward Current	I <sub>F(AV)</sub>	A	60Hz Half-sine wave , Resistance load , $T_L$ =100 C	2.0								
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	A	60Hz Half-sine wave, 1 cycle,Ta=25℃	50								
Operation Junction and Storage Temperature Range	Tj,Tstg	°C		-55 ~ +150								

## Electrcal Charcteristics (Ta=25 unless otherwise specified)

					S2								
Item	Symbol	Unit	Test Condition		Α	В	D	G	J	κ	Μ		
Peak Forward Voltage	$V_{F}$	V	I <sub>F</sub> =2.0A				1.1						
Peak Reverse Current	I <sub>RRM1</sub>	- μA V <sub>RM</sub> =V <sub>RR</sub>		Ta=25℃				5.0					
	I <sub>RRM2</sub>		VRM-VRRM	Ta=125℃				125					
Thermal	$R_{\theta J-A}$	°C/W	Between juncti	ion and ambient	53								
Resistance(Typical)	$R_{\theta J\text{-L}}$	01 11	Between junction and terminal					16					

#### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



# **Typical Characteristics**

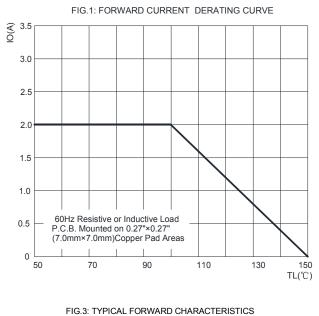
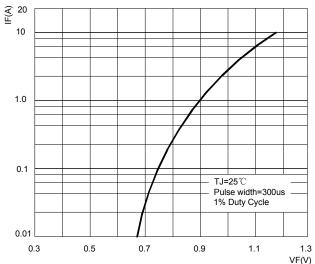


FIG.3. TIFICAL FORWARD CHARACTERISTICS



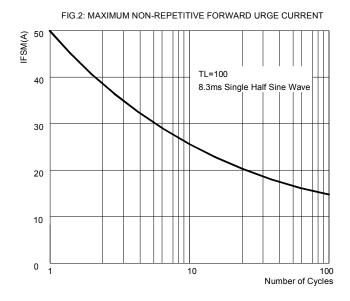
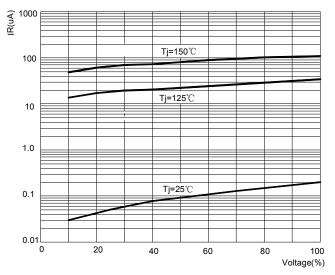
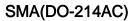


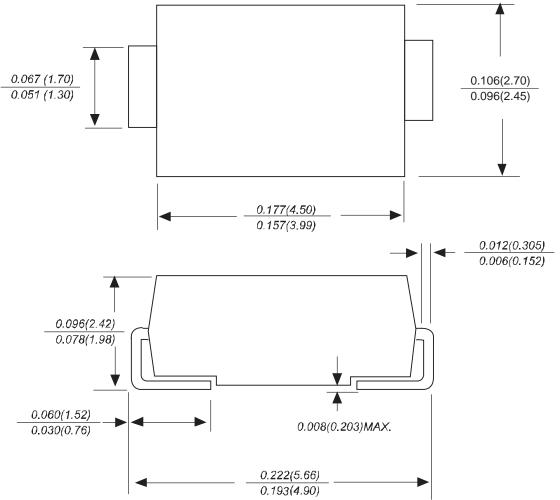
FIG.4: TYPICAL REVERSE CHARACTERISTICS





## **Package Outline Dimensions**





Dimensions in inches and (millimeters)



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