

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
1N4001-1N4007	SMA (DO-214AC)	Mx	2000			







Maxmim Ratings (Ta=25 unless otherwise noted)

	Symbol	Unit	Test Conditions	1N400							
Item				1	2	3	4	5	6	7	
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000	
Maximum RMS Voltage	V _{RMS}	V		35	70	140	280	420	560	700	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave , Resistance load , T _L =75 ℃	1.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	Α	60Hz Half-sine wave , 1 cycle , Ta=25℃	30							
Operation Junction and Storage Temperature Range	T _J ,T _{STG}	$^{\circ}$ C		-55 ~ +150							

Electrcal Charcteristics (Ta=25 unless otherwise specified)

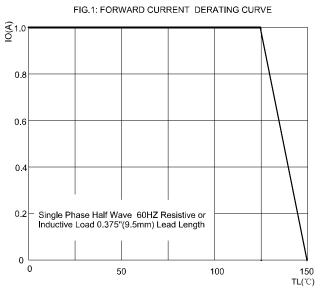
						1N400						
Item	Symbol	Unit	Test Condition		1	2	3	4	5	6	7	
Peak Forward Voltage	V_{F}	V	I _F =1.0A			1.0						
Peak Reverse Current	I _{RRM1}	μA V	V _{RM} =V _{RRM}	T _a =25℃				5				
	I _{RRM2}			T _a =125℃	50							
Thermal	$R_{\theta J-A}$	°C/W	Between juncti	ion and ambient	55							
Resistance(Typical)	$R_{\theta J\text{-L}}$	<i>- 1</i> W	Between junction and terminal		25							

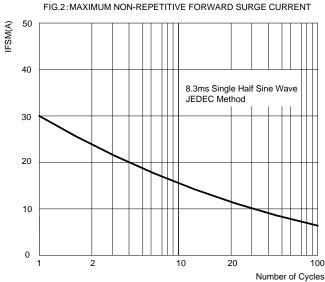
Notes:

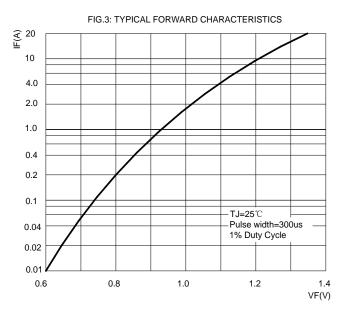
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

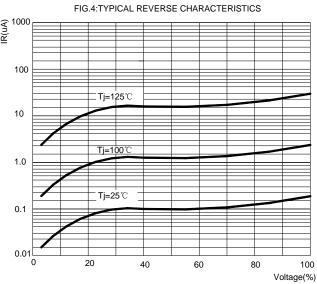


Typical Characteristics



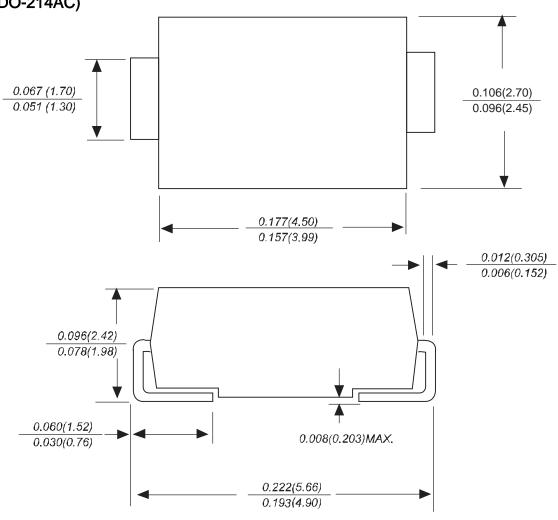








Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)



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