



Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1N4001W- 1N4007W	SMA	Mx	2000

x: From 1-7



SMA



Maxmim Ratings ($T_a=25^{\circ}C$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	1N400						
				1W	2W	3W	4W	5W	6W	7W
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	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=75^{\circ}C$	1.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	30						
Operation Junction and Storage Temperature Range	T_J, T_{STG}	$^{\circ}C$		-55 ~ +150						

Electrcal Charcteristics ($T_a=25^{\circ}C$ unless otherwise specified)

Item	Symbol	Unit	Test Condition	1N400						
				1W	2W	3W	4W	5W	6W	7W
Peak Forward Voltage	V_F	V	$I_F=1.0A$	1.0						
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$						
	I_{RRM2}			$T_a=125^{\circ}C$						
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	55						
	$R_{\theta J-L}$		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

FIG.1: FORWARD CURRENT DERATING CURVE

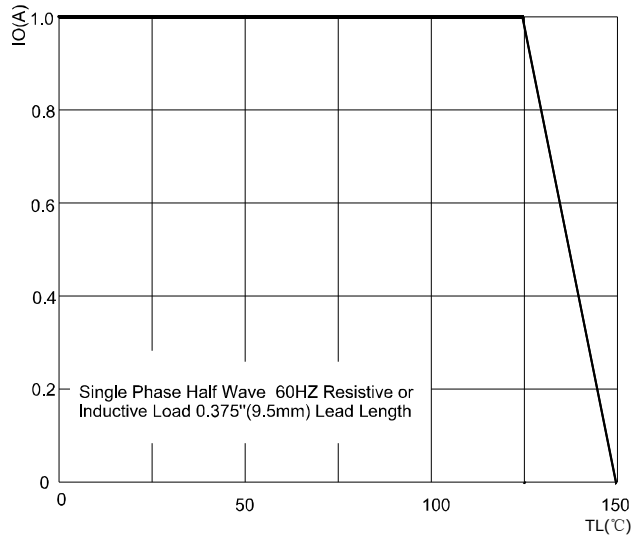


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

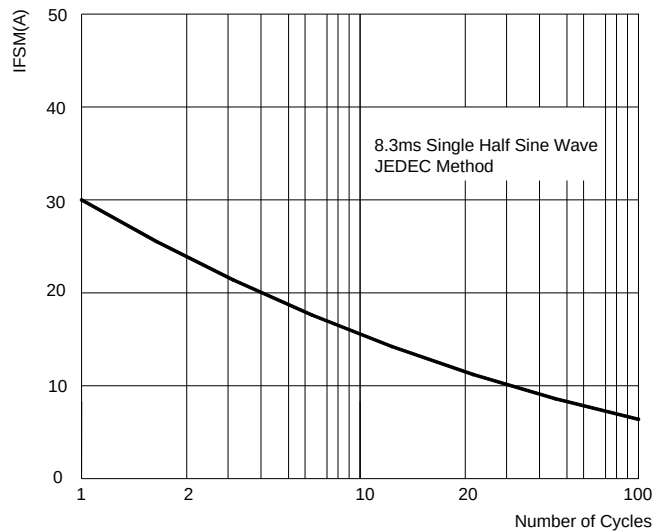


FIG.3: TYPICAL FORWARD CHARACTERISTICS

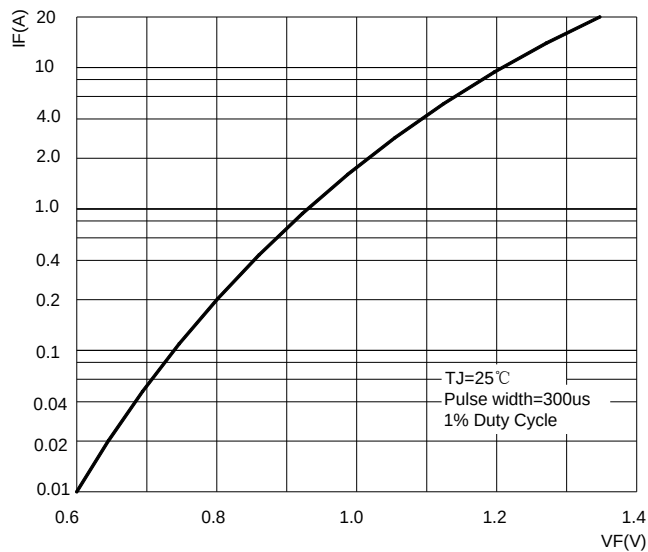
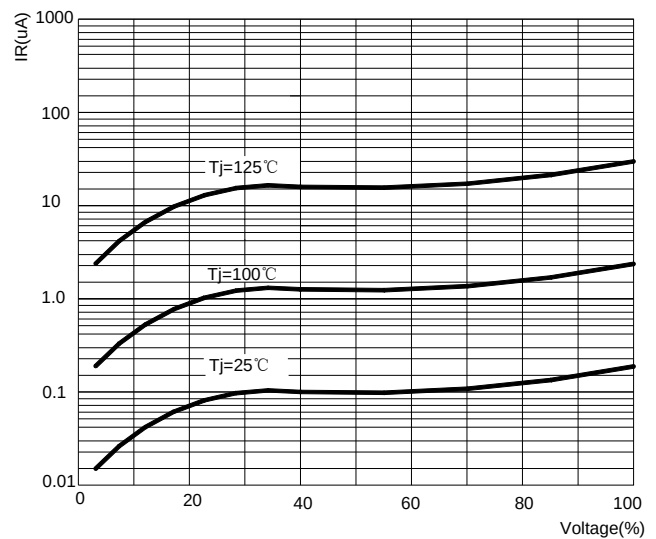


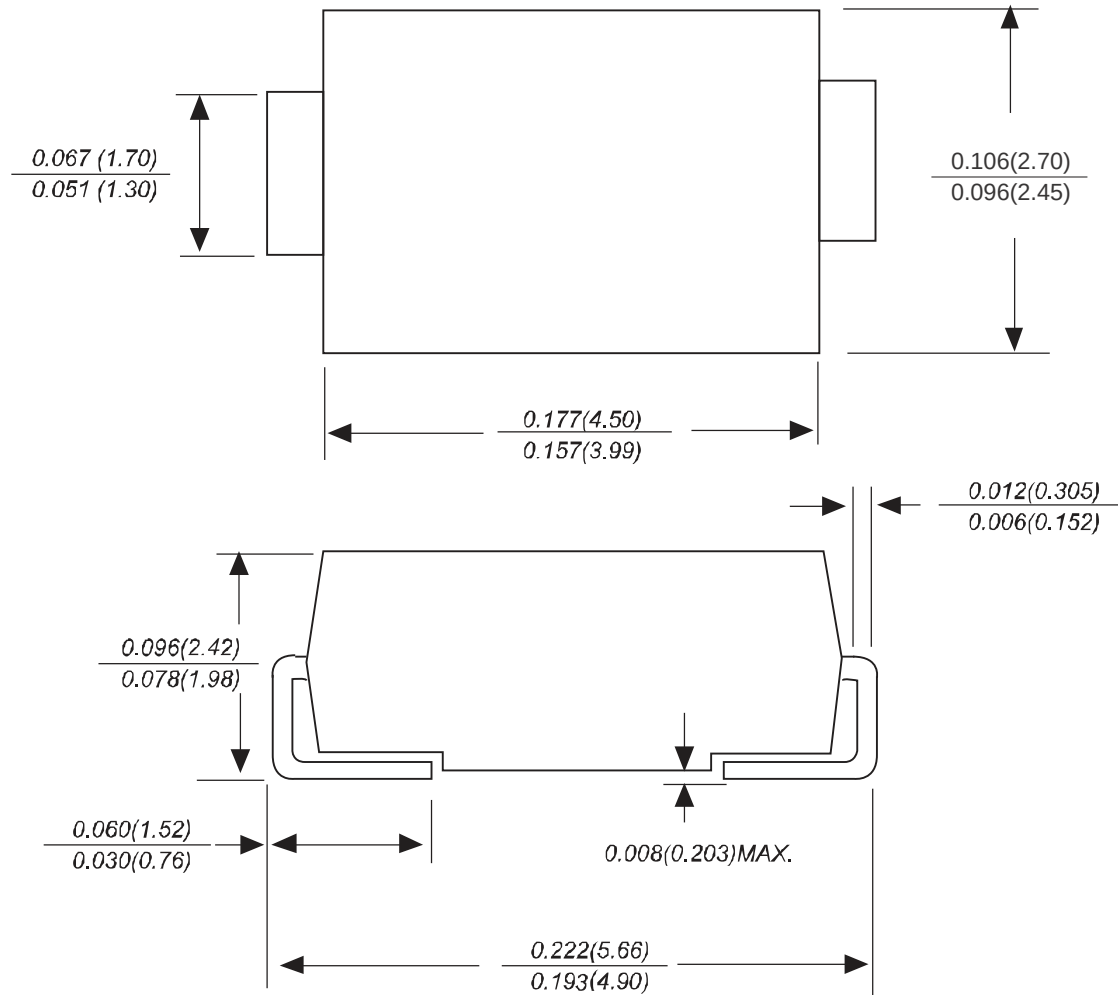
FIG.4: TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

SMA



Dimensions in inches and (millimeters)



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