

FEATURES

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
1N4004	SMA	M4	2000	





MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	1N4004
Repetitive Peak Reverse Voltage	V_{RRM}	V		400
Maximum RMS Voltage	V _{RMS}	V		280
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}	А	60Hz Half-sine wave , 1 cycle , Ta=25℃	30
Operation Junction and Storage Temperature Range	T_J, T_{STG}	$^{\circ}$		-55 ~ + 150

ELECTRICAL CHARACTERISTICS (T =25 unless otherwise specified)

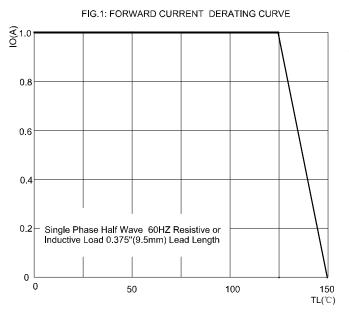
Item	Symbol	Unit	Test Condition		1N4004
Peak Forward Voltage	V_{F}	٧	I _F =1.0A		1.0
Peak Reverse Current	I _{RRM1}	μА	V _{RM} =V _{RRM}	T _a =25℃	5
	I _{RRM2}			T _a =125℃	50
Thermal	$R_{\theta_{J-A}}$	°C/W	Between junction and ambient		55
Resistance(Typical)	$R_{\theta J-L}$	O I VV	Between junction and terminal		25

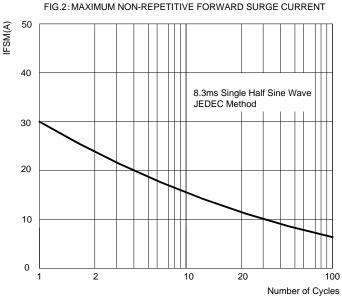
Notes:

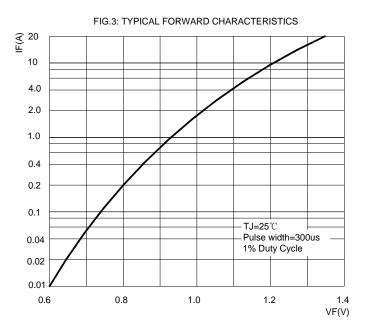
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" \times 0.2" (5.0 mm \times 5.0 mm) copper pad areas

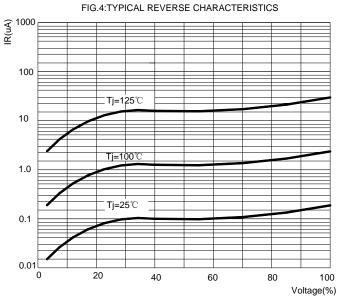


Typical Characteristics



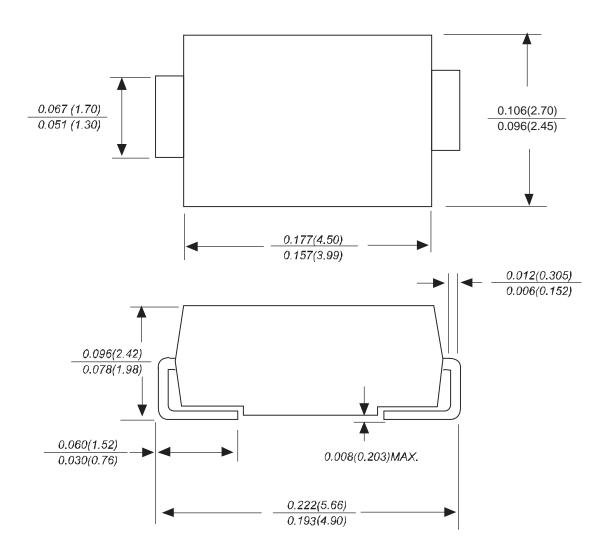








SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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