

1N4001F THRU 1N4007F

DESCRIPTION

Cathode

Simplified outline SMAF and symbol

Anode

PINNING

Top View

PIN

1

2

Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 50 to 1000 V Forward Current - 1 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

• Case: SMAF

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 27mg 0.00086oz

Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load

Parameter	Symbols	1N4001F	1N4002F	1N4003F	1 N4004F	1N4005F	1N4006F	1N4007F	Unite
Maximum Repetitive Peak Reverse Voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	Voc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	1						Α	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30						Α	
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1						V	
Maximum DC Reverse Current Ta = 25 °C		5							^

 I_{R}

 C_i

 $R_{\scriptscriptstyle BJA}$

 T_j, T_{stg}

115

-55 ~ +150

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Operating and Storage Temperature Range

at Rated DC Blocking Voltage

Typical Junction Capacitance 1)

Typical Thermal Resistance 2>

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μА

pΕ

°C/W

°C

^{1)}Measured at 1 MHz and applied reverse voltage of 4 V D.C

^{2)}Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted



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Fig.1 Forward Current Derating Curve

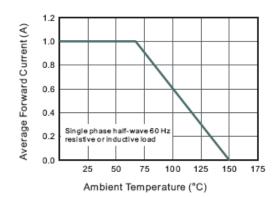


Fig.2 Typical Instaneous Reverse Characteristics

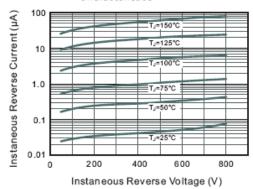


Fig.3 Typical Forward Characteristic

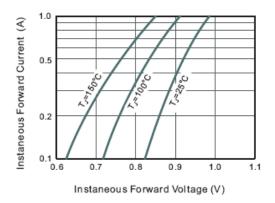
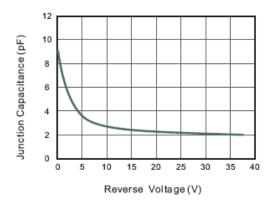


Fig.4 Typical Junction Capacitance



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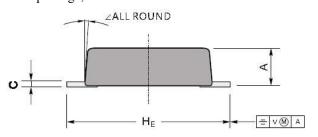


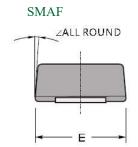


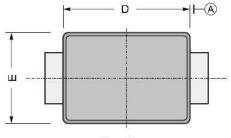
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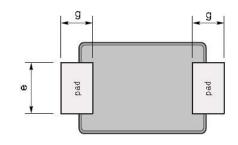
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads







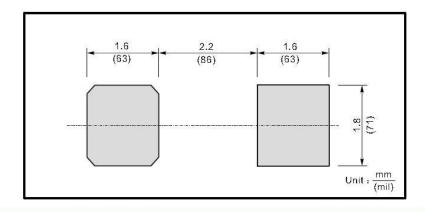


Top View

Bottom View

UNIT		Α	О	D	Ш	e	9	H∈	_	
mm	max	1.1	0.20	3.7	2.7	1.6	1.2	4.9		
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	7°	
mil	max	43	7.9	146	106	63	47	193		
	min	35	4.7	130	94	51	31	173		

The recommended mounting pad size



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