

Voltage Range - 50 to 1000 V Forward Current - 1 Ampere

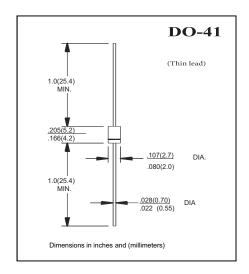
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

FEATURES

- Low cost construction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260 °C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012 ounce, 0.33 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

PARAMETER		SYMBOLS	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T_A = 25 $^{\circ}$ C		$I_{(AV)}$	1.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	30							Amps
Maximum Instantaneous Forward Voltage @ 1.0A		$V_{\rm F}$	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	T _A = 25 °C	ī	5.0							μА
	T _A = 100°C	I_R .	50							
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T_L =75 $^{\circ}$ C		$I_{R(AV)}$	30							μΑ
Typical Junction Capacitance (Note 1)		C_{J}	13							pF
Typical Thermal Resistance (Note 2)		$R_{ heta JA}$	50							°C/W
Operating Junction Temperature Range		T_J	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range		T_{STG}	-55 to +150							$^{\circ}$

Notes:

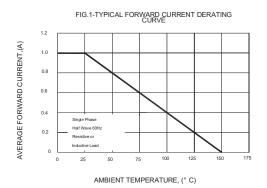
- 1. Measured at 1.0MHz and Applied Reverse Voltage of 4.0V DC.
- 2. Thermal Resistance from junction to terminal 6.0mm² copper pads to each terminal.
- 3. The chip size is 40 mil * 40 mil

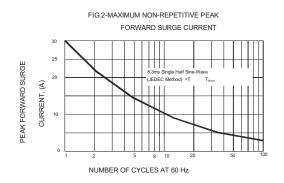
Email: sales@micindia.com Website: www.micindia.com

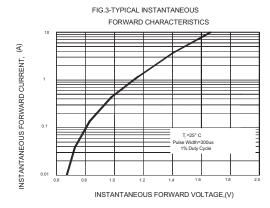
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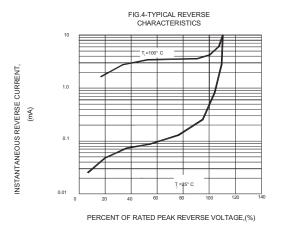
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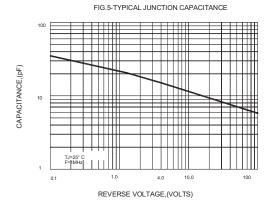
RATING AND CHARACTERISTIC CURVES 1N4001 - 1N4007











Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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