# 1N4007-E

# GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE: 1000V CURRENT: 1.0A



## **FEATURE**

Molded case feature for auto insertion High current capability Low leakage current High surge capability High temperature soldering guaranteed 250°C/10sec/0.375"lead length at 5 lbs tension Halogen Free

#### **MECHANICAL DATA**

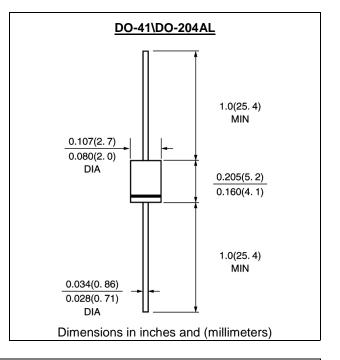
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Halogen

Free Epoxy

Polarity: color band denotes cathode

Mounting position: any



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

SYMBOL	1N4007-E	units
Vrrm	1000	V
Vrms	700	V
Vdc	1000	V
If(av)	1.0	А
Ifsm	30.0	Α
Vf	1.1	V
Ir(av)	30.0	μΑ
lr	5.0 50.0	μΑ
Cj	15.0	pF
Rth(ja)	50.0	°C /W
Tj, Tstg	-50 to +150	°C
	Vrrm Vrms Vdc If(av) Ifsm Vf Ir(av) Ir Cj Rth(ja)	Vrrm         1000           Vrms         700           Vdc         1000           If(av)         1.0           Ifsm         30.0           Vf         1.1           Ir(av)         30.0           Ir         5.0           50.0         50.0           Cj         15.0           Rth(ja)         50.0

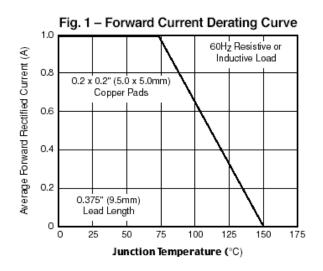
#### Note:

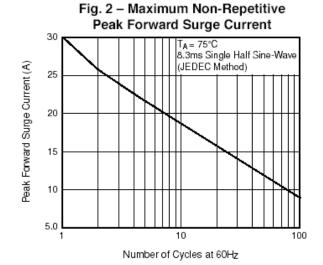
- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient at 0.375"lead length, P.C. Board Mounted

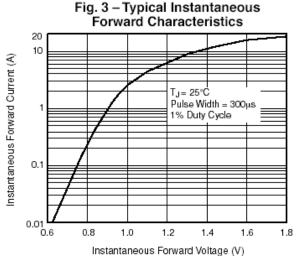
\* JEDEC Registered value

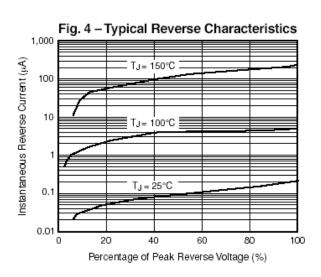
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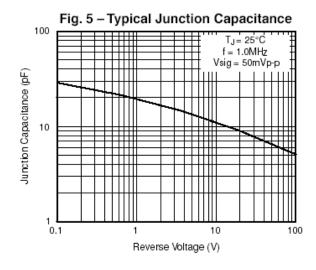
#### **RATINGS AND CHARACTERISTIC CURVES 1N4007-E**

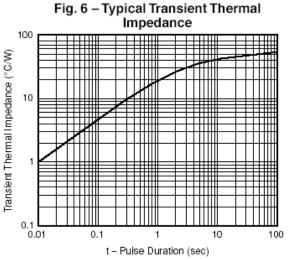












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