

### 1N4001 THRU 1N4007

## 1.0 AMP. SILICON RECTIFIERS

Voltage Range 50 to 1000 Volts Current 1.0 Amperes

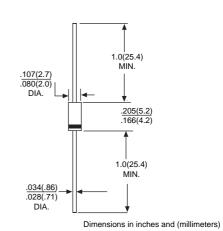
#### **Features**

- \*Low forward voltage drop
- \*High current capability
- \*High reliability
- \*High surge current capability

#### Mechanical Data

- \*Cases:Molded plastic
- \*Epoxy:UL 94V-0 rate flame retardant
- \*Lead:Axial leads,solderable per MIL-STD-202,
- Method 208 guaranteed \*Polarity:Color band denotes cathode end
- \*High temperature soldering guaranteed: 250°C/10 seconds/.375",(9.5mm) lead
- lengths at 5 lbs.,(2.3kg) tension
- \*Weight:0.35 gram

### DO-41



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	UNITS
VRRM	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
IF(AV)	1.0							А
Iгsм	30							А
VF	1.0							V
lr	5.0 50							uA uA
lr	30							uA
CJ	15							pF
R*JA	50							°C/W
TJ,TSTG	-55 to+125							°C
	VRMS VDC IF(AV) IFSM VF IR IR CJ R:JA	VRRM 50 VRMS 35 VDC 50 IF(AV) IFSM VF IR IR	VRMM 50 100 VRMS 35 70 VDC 50 100 IF(AV) IFSM VF IR IR CJ R*JA	VRMM 50 100 200 VRMS 35 70 140 VDC 50 100 200  IF(AV)  IFSM  VF  IR  IR  CJ  R*JA	VRRM         50         100         200         400           VRMS         35         70         140         280           VDC         50         100         200         400           IF(AV)         1.0           IFSM         30           VF         1.0           IR         5.0           IR         30           CJ         15           R:JA         50	VRMM 50 100 200 400 600  VRMS 35 70 140 280 420  VDC 50 100 200 400 600  IF(AV) 1.0  IFSM 30  VF 1.0  IR 5.0  CJ 15  R.JA 50	VRMM 50 100 200 400 600 800  VRMS 35 70 140 280 420 560  VDC 50 100 200 400 600 800  IF(AV) 1.0  IFSM 30  VF 1.0  IR 5.0 50  IR 30  CJ 15  R UA 50	VRRM         50         100         200         400         600         800         1000           VRMS         35         70         140         280         420         560         700           VDC         50         100         200         400         600         800         1000           IF(AV)         1.0           IFSM         30           VF         1.0           IR         5.0           50           IR         30           CJ         15           R:UA         50

NOTES: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.

2. Thermal Resistance from Junction to Ambient .375" (9.5mm) Lead Length.

# RATING AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007



