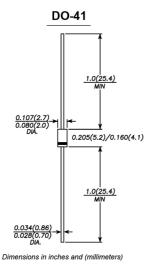


# 1N4001 THRU 1N4007

GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free
- molded plastic technique Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
  - 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-41 molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750,
Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any

Weight: 0.012 ounce, 0.33 grams

SYMBOLS IN IN IN IN IN IN

### 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 current derate by 20%.

	STWBOLS	4001	4002	4003	4004	4005	4006	4007	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I(AV)	1.0							А
0.375"(9.5mm) lead length at Ta=75°C	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	Ігѕм	IFSM 30.0							Α
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.1						V	
Maximum DC reverse current Ta=25°C		5.0							μА
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	50.0							
Typical junction capacitance (NOTE 1)	Cı	15.0						pF	
Typical thermal resistance (NOTE 2)	Reja	50.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150						°C	

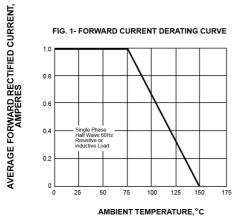
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

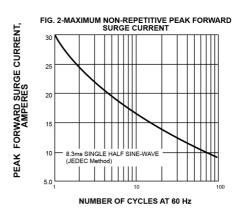
2. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

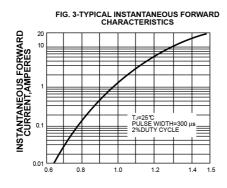
## CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO.,LTD.

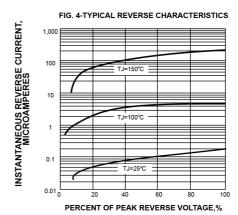


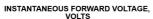
## RATINGS AND CHARACTERISTIC CURVES 1N4001 THRU 1N4007

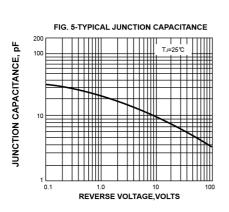


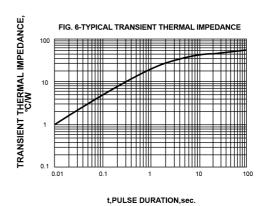












# CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO.,LTD.