

**TAYCHIPST**

PLASTIC SILICON RECTIFIER

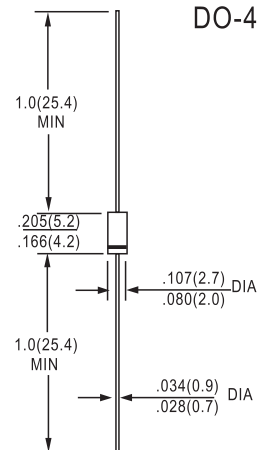
IN4001 THRU IN4007**50V-1000V 1.0A****FEATURES**

- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

- Case: Molded plastic use UL 94V-0 recognized Flame retardant epoxy
- Terminals: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single-phase, half-wave, 60Hz, resistive or inductive load

	IN4001	IN4002	IN4003	IN4004	IN4005	IN4006	IN4007	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 Lead Length at $T_A = 75^\circ\text{C}$	1.0							A
Maximum Overload Surge 8.3 ms single half sine-wave	50							A
Maximum Forward Voltage at 1.0A AC and 25°C	1.1							V
Maximum Full Load Reverse Current, Full Cycle Average at 75°C Ambient	30							μA
Maximum DC Reverse Current at 25°C at Rated DC Blocking Voltage at 75°C	5.0							μA
	50.0							μA
Typical Junction Capacitance (Note 1)	30							pF
Operating and Storage Temperature Range	-65 to +175							$^\circ\text{C}$

Notes : 1. Measured at 1.0MHz and applied reverse voltage of 4.0 VDC.

* JEDEC Registered Value.

RATINGS AND CHARACTERISTIC CURVES IN4001 THRU IN4007

Fig.1 - TYPICAL REVERSE CHARACTERISTICS

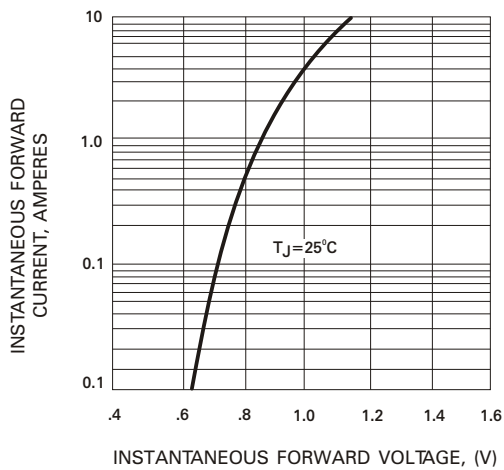


Fig.2 - PAKF FORWARD SURGE CURRENT

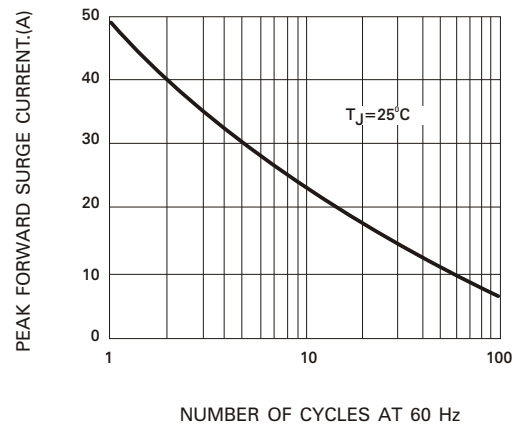


Fig.3 - FORWARD CURRENT DERATING CURVE

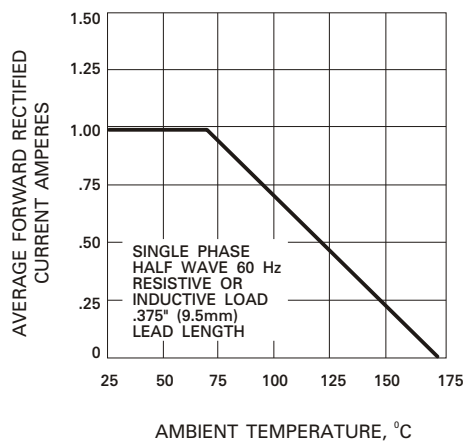


Fig.4 - TYPICAL JUNCTION CAPACITANCE

