



### Voltage Range

50 TO 1000 Volts

### Current

10.0 Amperes

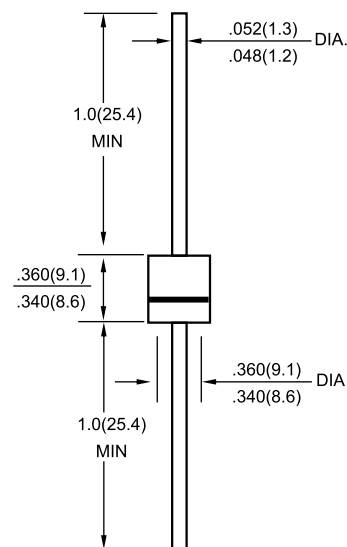
## Features

- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability

## Mechanical Data

- ✧ Case: Molded plastic
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: Any
- ✧ Weight: 1.65 grams

### R-6



Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	P1000A	P1000B	P1000D	P1000G	P1000J	P1000K	P1000M	UNI
Maximum Recurrent Peak Reverse Voltage	50	100						
Maximum RMS Voltage	35							V
Maximum DC Blocking Voltage	50	100						
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=60°C	10.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	400							A
Maximum Instantaneous Forward Voltage at 10.0A	1.0							V
Maximum DC Reverse Current Ta=25°C	10.0							μA
at Rated DC Blocking Voltage Ta=100°C	400							μA
Typical Junction Capacitance (Note 1)	100							pF
Typical Thermal Resistance RθJA (Note 2)	10							°C/W
Operating and Storage Temperature Range TJ, TSTG	-65 — +150							°C

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

2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

### RATING AND CHARACTERISTIC CURVES (P1000A - P1000M)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

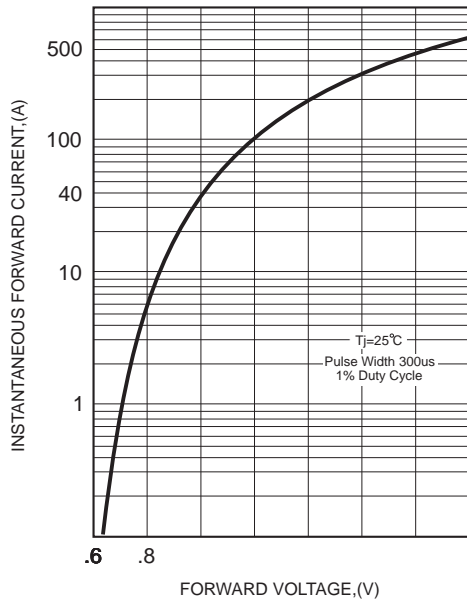


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

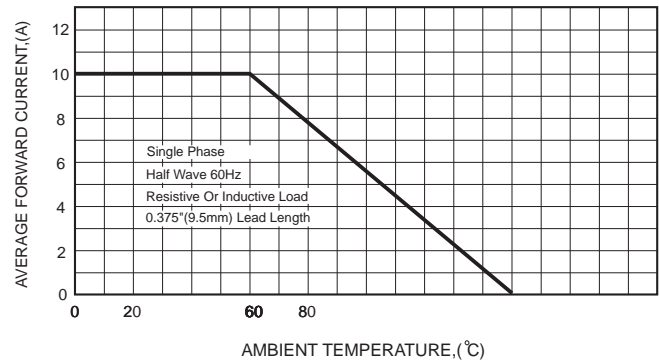


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

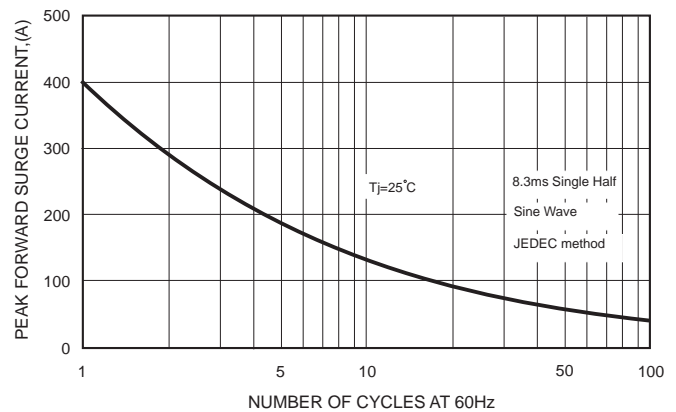


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

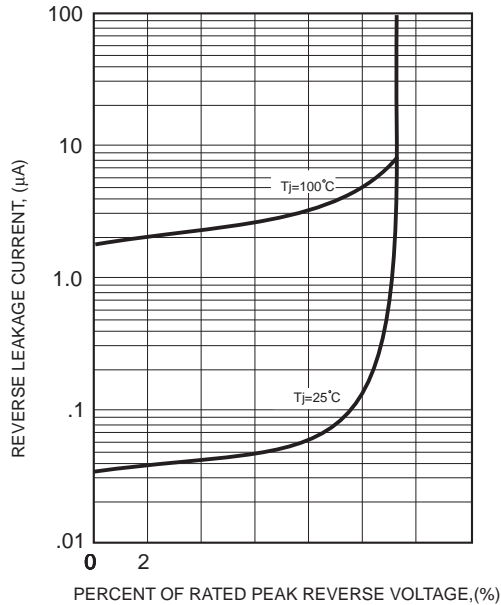


FIG.5 - TYPICAL THERMAL RESISTANCE VS. LEAD LENGTH

