

# P1200M

**PRV : 1000 Volts**  
**Io : 12 Amperes**

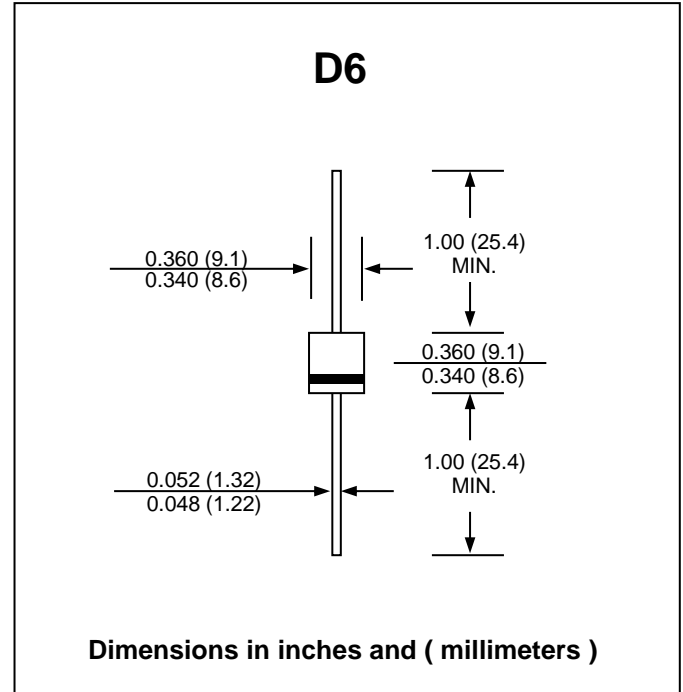
## FEATURES :

- \* Glass Passivated Junction
- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Pb / RoHS Free

## MECHANICAL DATA :

- \* Case : Void-free molded plastic body
- \* Epoxy : UL94V-0 rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 2.1 grams

## SILICON RECTIFIER DIODES



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

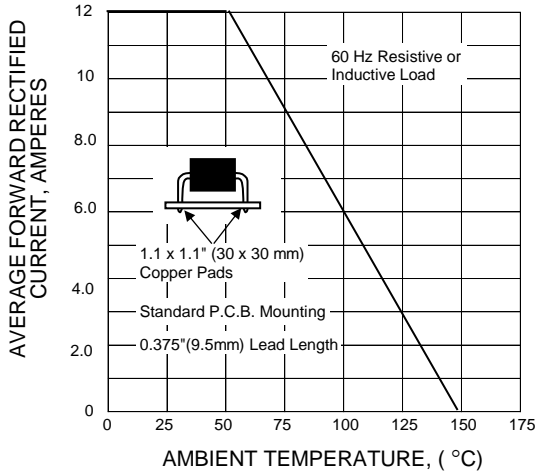
RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length $T_a = 50\text{ }^\circ\text{C}$	$I_{F(AV)}$	12	A
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	$I_{FSM}$	600	A
Maximum Instantaneous Forward Voltage at $I_F = 5\text{ A}$	$V_F$	0.88	V
Maximum DC Reverse Current at rated DC Blocking Voltage	$I_R$	25	$\mu\text{A}$
Typical Thermal Resistance (1)	$R_{\theta JA}$	14	K/W
Junction Temperature Range	$T_J$	- 50 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 50 to + 150	$^\circ\text{C}$

### Notes :

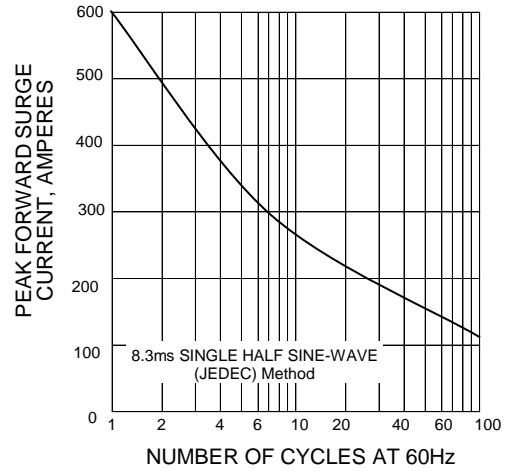
- (1) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length,  
P.C.B. mounted with 1.1" x 1.1" (30 x 30mm) copper pads

**RATING AND CHARACTERISTIC CURVES ( P1200M )**

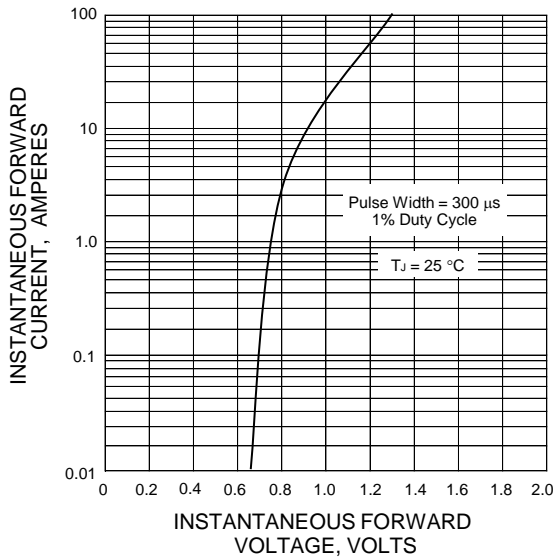
**FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURRENT**



**FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS**

