



FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE - **50 to 1000** Volts
 FORWARD CURRENT - **6.0** Amperes

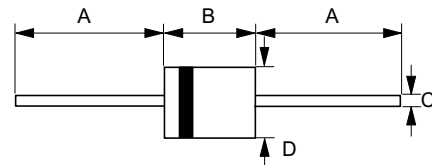
FEATURES

- Fast switching for high efficiency
- Low cost
- Diffused junction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case : JEDEC R-6 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.07 ounces, 2.1 grams
- Mounting position : Any

R-6



R-6		
Dim.	Min.	Max.
A	25.4	-
B	8.60	9.10
C	1.20 \varnothing	1.30 \varnothing
D	8.60 \varnothing	9.10 \varnothing
All Dimensions in millimeter		

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, derate current by 20%

CHARACTERISTICS	SYMBOL	PR6001	PR6002	PR6003	PR6004	PR6005	PR6006	PR6007	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =50°C	I _(AV)	6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}	300							A
Maximum forward Voltage at 6.0A DC	V _F	1.3							V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	10 150							uA uA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C _J	140				70			pF
Typical Thermal Resistance (Note 3)	R _{θJA}	32							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES : 1.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A.
 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3.Thermal Resistance Junction to Ambient.

