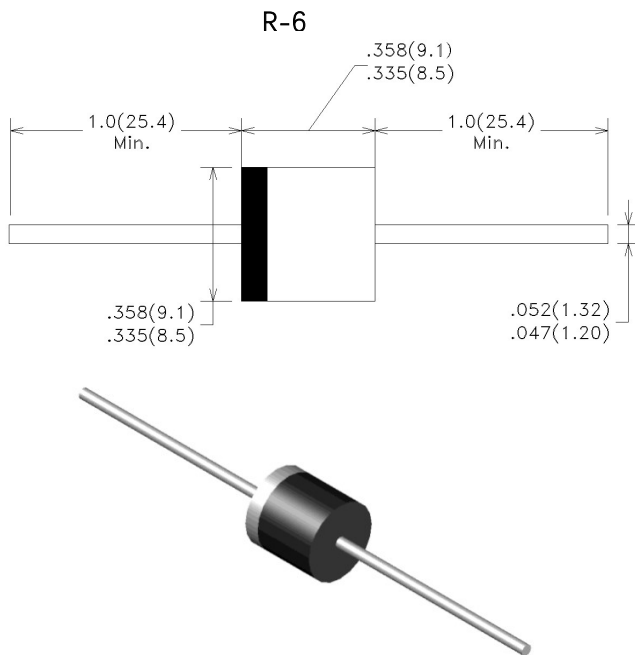


20.0 A / 50 V to 1000 V

Package Outline Dimensions in mm (inches)



Features

- High reliability
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in general purpose rectification of power Supplies.

Mechanical Data

- Case:R-6 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

Parameter	Symbol	20A05	20A1	20A2	20A4	20A6	20A8	20A10	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	I _{F(AV)}	20.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	500							A
I ² t Rating for Fusing (t<8.3ms)	I ² t	1042							A ² s
Storage temperature range	T _S	-55 ~ 150							°C
Operating Junction temperature range	T _J	-55 ~ 150							°C
Thermal Resistance (Typical)	R _{thJC}	2.5							°C /W

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Parameter	Test Conditions	Symbol	20A05 thur 20A10	Unit
Maximum forward voltage	I _F =20.0 A	V _F	1.1	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5.0	μA
	TA=100°C		200	

Fig.1 Forward Current Derating Curve

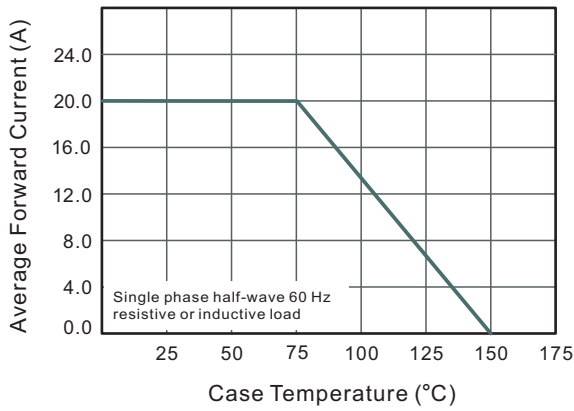


Fig.2 Typical Reverse Characteristics

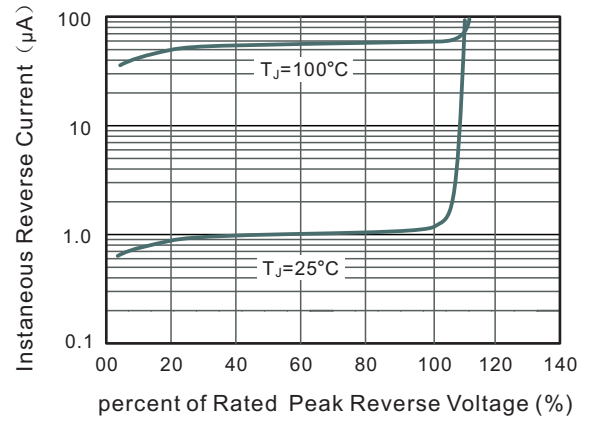


Fig.3 Typical Forward Characteristic

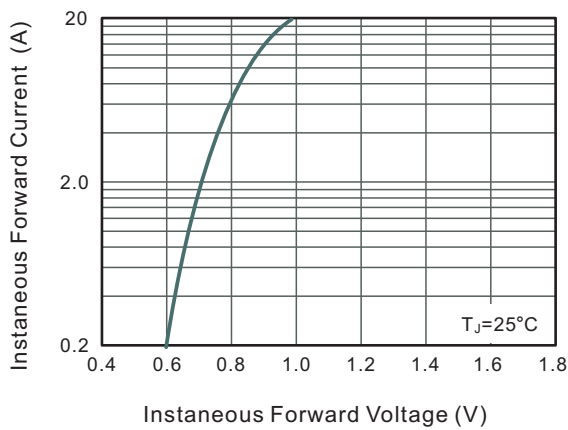


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

