

Reverse Voltage - 600 V

Forward Current - 10.0 A

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

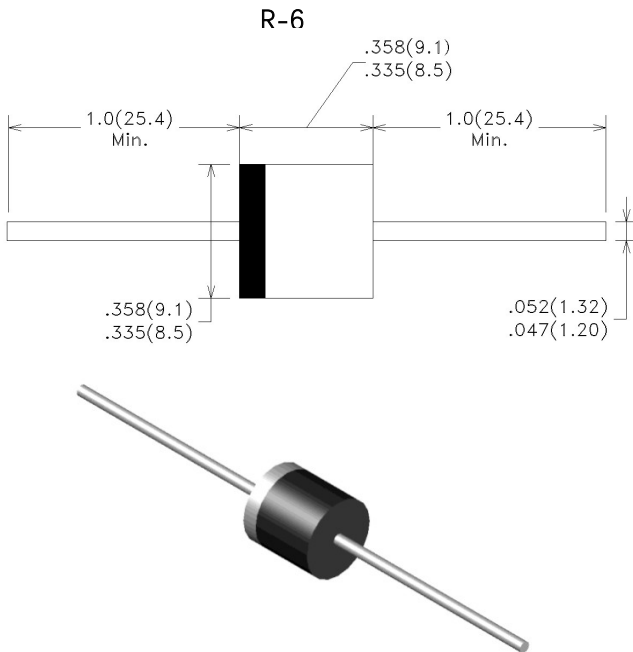
Typical Applications

- For use in general purpose rectification of power Supplies.

Mechanical Data

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

Package Outline Dimensions in mm (inches)



Maximum ratings

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

Parameter	Symbol	10A6T	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified current	$I_{F(AV)}$	10.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	330	A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	454	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	10A6T	Unit
Maximum forward voltage	$I_F = 10.0 A$	V_F	1.0	V
Maximum DC reverse current at rated DC blocking voltage	$T_A = 25^\circ C$	I_R	5.0	μA
	$T_A = 125^\circ C$		200	

Typical Characteristics

Fig.1 Forward Current Derating Curve

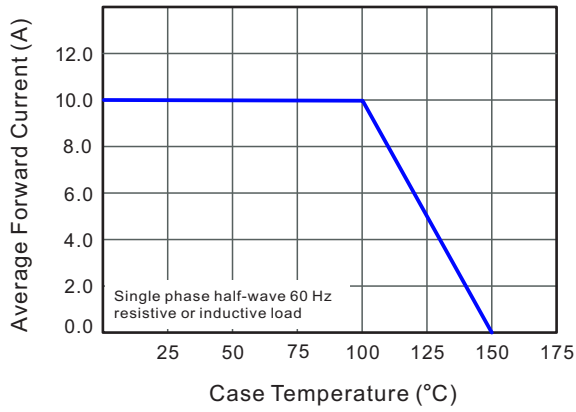


Fig.2 Typical Reverse Characteristics

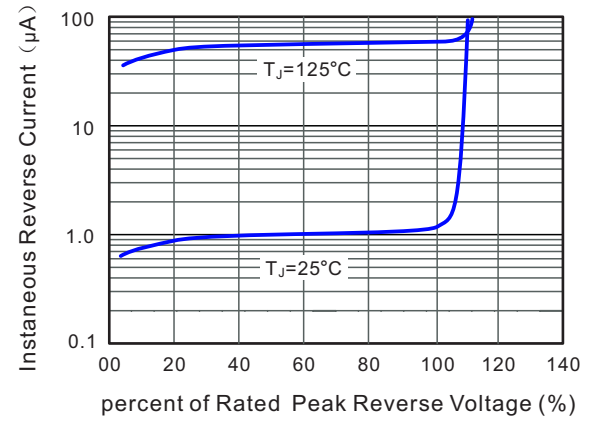


Fig.3 Typical Forward Characteristic

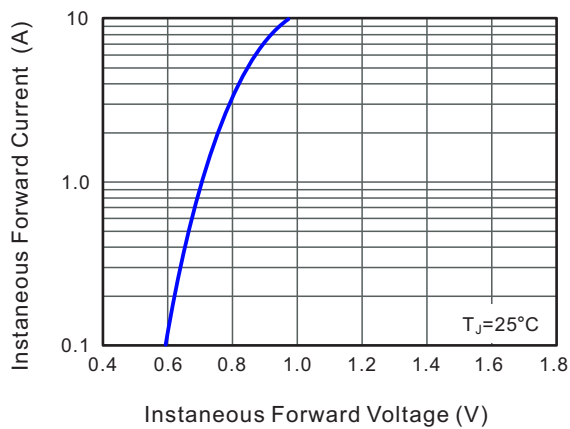


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

