

Ultra-Fast Recovery Diodes

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C, 0.25"(6.35mm) from case for 10 seconds

ITO-220AB

PIN



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 current derate by 20%.

Parameter	SYMBOLS	MURF2020DCT	MURF2040DCT	MURF2060DCT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Maximum average forward rectified current at TC=110 °C per device per diode	$I_{(AV)}$	20.0 10.0			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150.0			A
Maximum instantaneous forward voltage per diode at 10.0A	V_F	1.0	1.3	1.6	V
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	10 500			μA
Maximum reverse recovery time	T_{rr}	35			ns
Typical thermal resistance	$R_{\theta JC}$	4.0			$^\circ\text{C/W}$
Operating junction temperature range	T_J	-55 to +175			$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +175			$^\circ\text{C}$

Note: 1. Reverse recovery time test condition: $I_F=0.5\text{A}$ $I_R=1.0\text{A}$ $I_{rr}=0.25\text{A}$

Ratings And Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

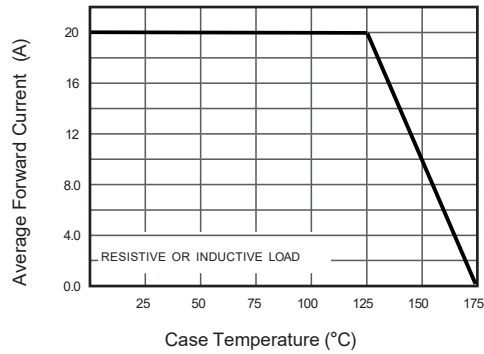


Fig.2 Typical Instantaneous Reverse Characteristics

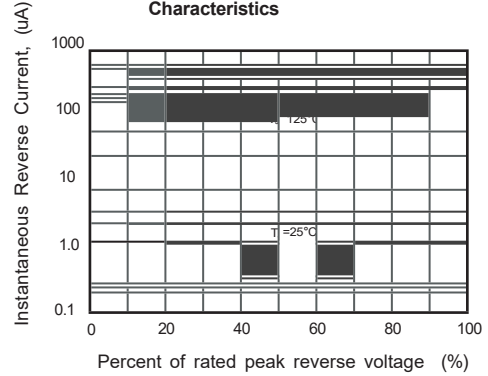


Fig.3 Typical Forward Characteristic

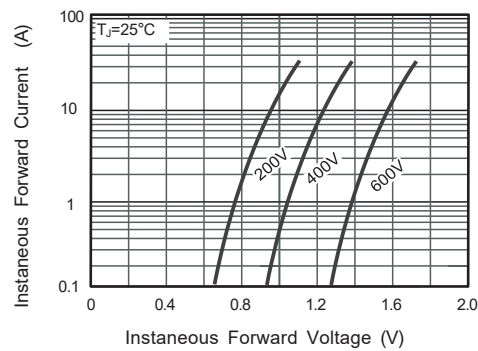
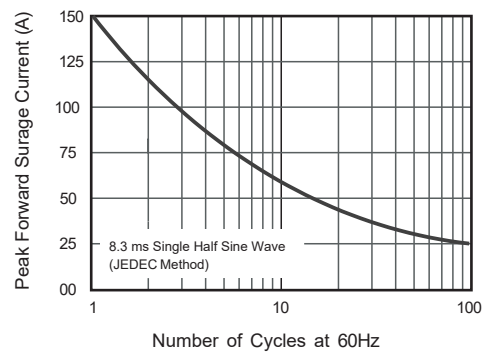


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.