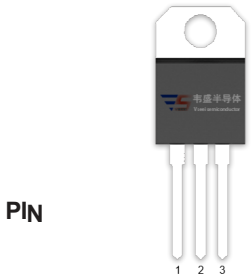
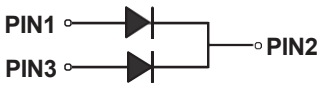
Ultra-Fast Recovery Diodes

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





Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss 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℃ T_A=125℃	I_R	10 500			u A
Maximum reverse recovery time	Trr	35			ns
Typical thermal resistance	R_{qJC}	4.0			°C/W
Operating junction temperature range	T_J	-55 to +175			°C
Storage temperature range	T_{STG}	-55 to +175			°C

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A

Ratings And Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

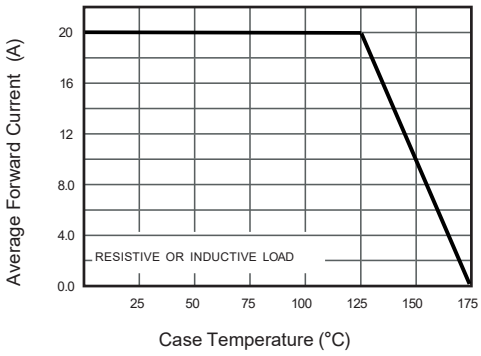


Fig.2 Typical Instaneous Reverse Characteristics

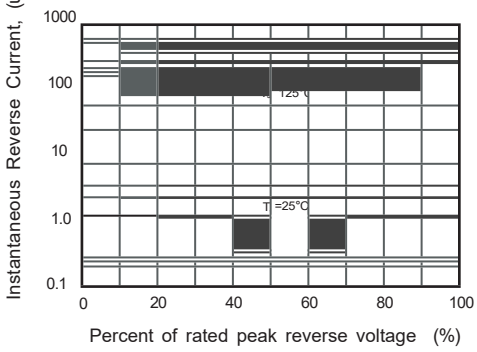


Fig.3 Typical Forward Characteristic

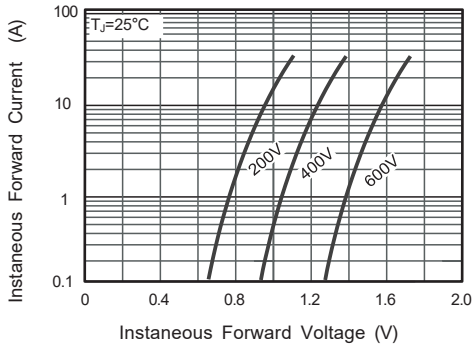
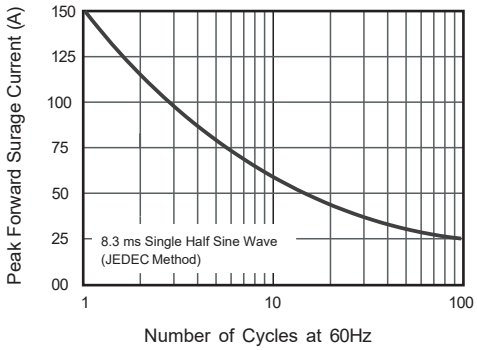


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.