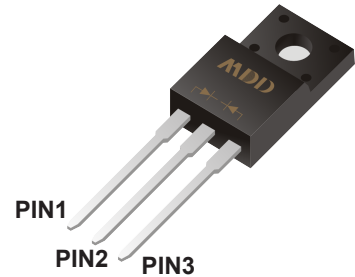


Ultra-Fast Recovery Diodes

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



Mechanical Data

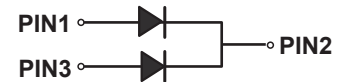
Case : JEDEC ITO-220AB Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.080 ounce, 2.24 grams



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	MDD MURF1020DCT	MDD MURF1040DCT	MDD MURF1060DCT	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 $T_C=110^\circ\text{C}$ per device per diode	$I_{(AV)}$	10.0 5.0			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0			A
Maximum instantaneous forward voltage per diode at 5.0A	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_{qJC}	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

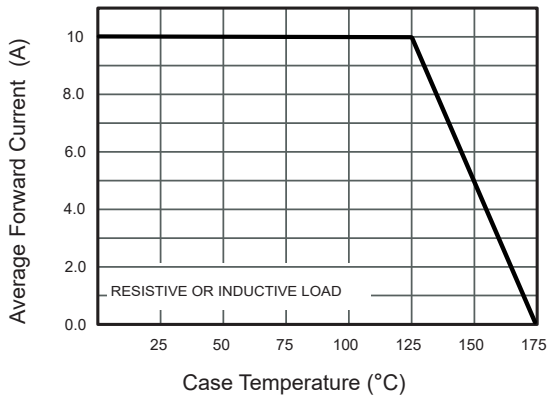


Fig.2 Typical Reverse Characteristics

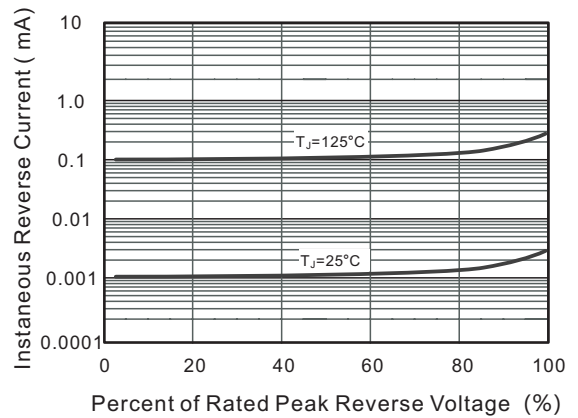


Fig.3 Typical Forward Characteristic

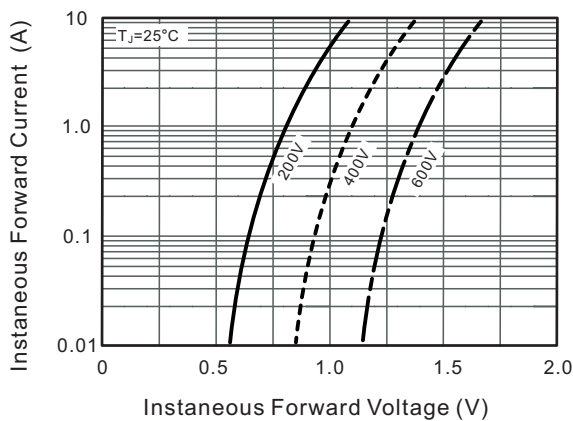
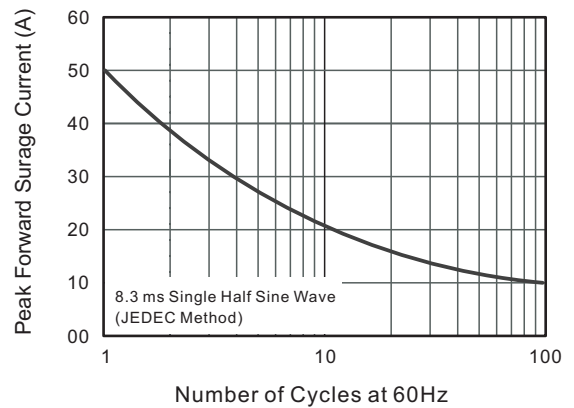


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.

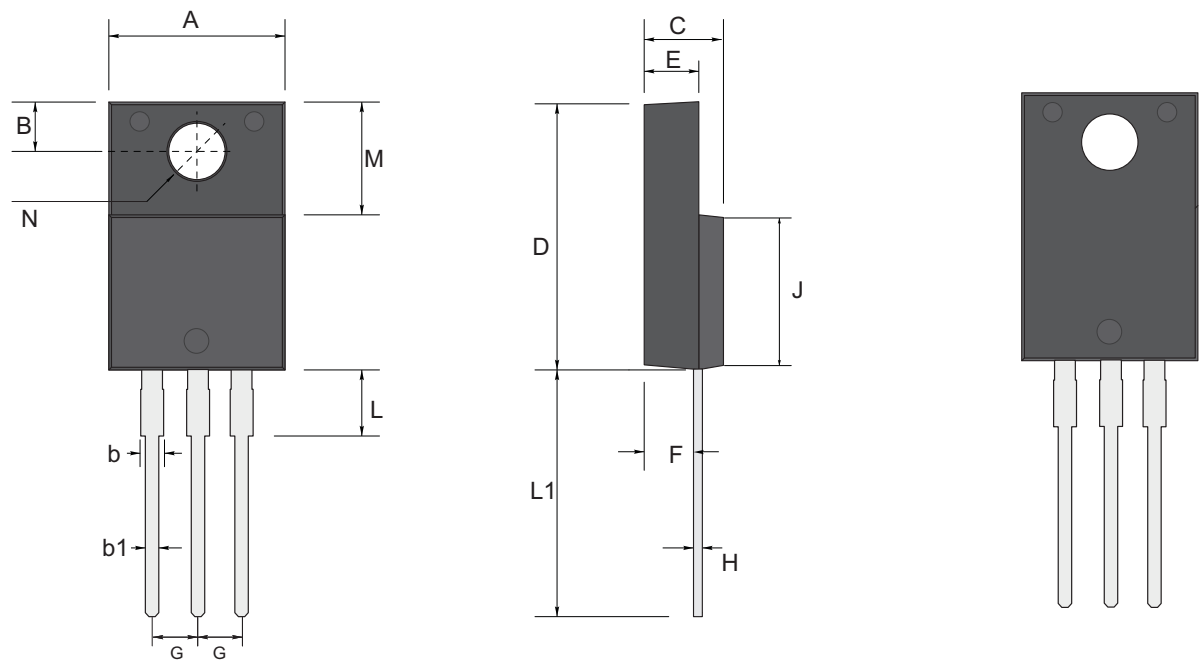


MURF1020DCT THRU MURF1060DCT

Reverse Voltage - 200 - 600 Volts Forward Current - 10.0 Ampere

Outlitne

ITO-220AB Package Outline Dimensions



UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N
mm	max	10.5	3.3	1.5	1.0	4.9	16.2	2.9	3.55	2.74	0.70	3.8	14.3	7.0	3.4
	min	9.6	2.54	1.1	0.5	4.3	14.7	2.4	2.56	2.34	0.30	2.3	12.0	6.3	3.0

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