



MUR3040FCT

Superfast Recovery Rectifiers

FEATURES

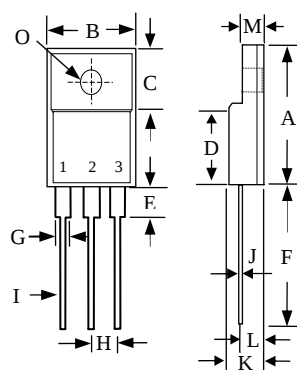
- Low profile package
- Fast recovery Epi diodes
- Easy to pick and place
- Low forward Voltage drop
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



Mechanical Data

- **Case** : ITO-220AB
- **Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity** : Cathode line denotes the cathode end
- **Mounting Position** : Any

ITO-220AB



ITO-220AB		
DIM.	MIN.	MAX.
A	14.90	16.0
B	9.90	10.40
C	6.45	7.15
D	7.85	8.75
E	2.80	3.50
F	12.8	—
G	1.10	1.4
H	2.35	2.65
I	0.45	0.95
J	0.40	0.65
K	4.35	4.75
L	2.55	3.15
M	2.45	2.70
O	Ø3.00	Ø3.50
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	Symbols	MUR3040FCT	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS Bridge Input Voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current per leg per device	$I_{(AV)}$	15 30	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	180	A
Maximum Forward Voltage at 15A per leg	V_F	1.3	V
Maximum DC Reverse Current $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=125^{\circ}C$	I_R	1.0 200	μA μA
Maximum Reverse Recovery Time (Note1)	TRR	35	ns
Typical Thermal Resistance	$R_{\theta JC}$	4	$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

NOTES: 1. Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

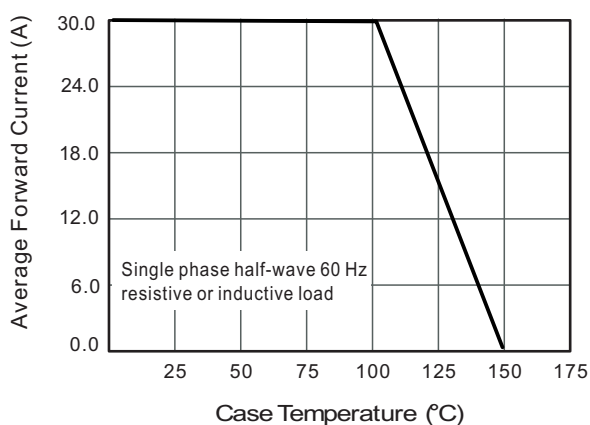


Fig.2 Typical Reverse Characteristics

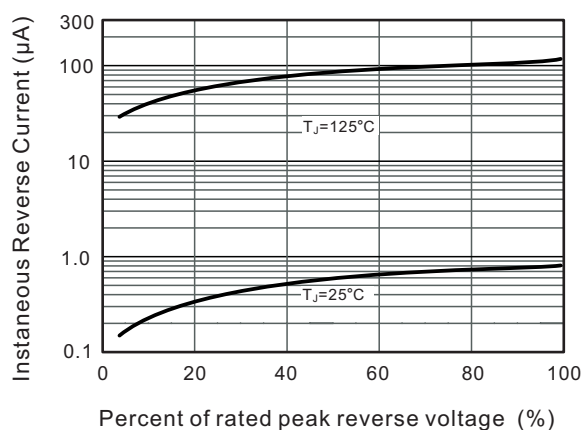


Fig.3 Typical Forward Characteristics

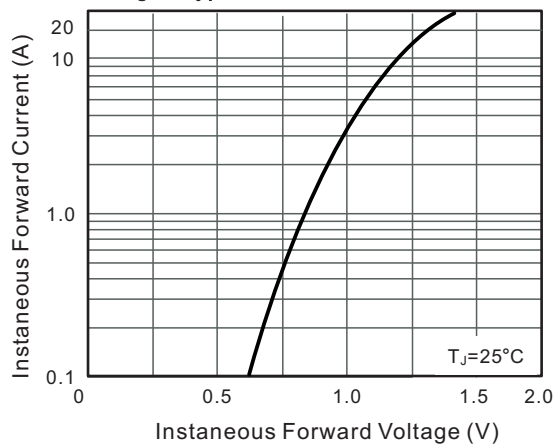


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

