MUR1010CT - MUR1060CT

10.0A GLASS PASSIVATED SUPERFAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

 Case: TO-220AB, Molded Plastic
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: See Diagram

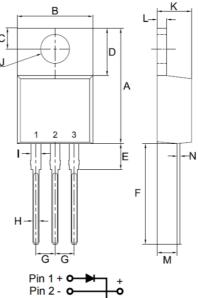
Weight: 2.24 grams (approx.)

Mounting Position: Any

Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

• Lead Free: For RoHS / Lead Free Version

TO-220AB



TO-220AB							
Unit:mm							
DIM	MIN	MAX					
A	14. 80	15. 80					
В	9. 57	10. 57					
С	2. 54	2. 94					
D	5. 80	6.80					
Е	2. 95	3. 95					
F	12.70	13. 40					
G	2. 34	2.74					
Н	0. 51	1. 11					
Ι	0. 97	1. 57					
J	3. 54 ø	4. 14ø					
K	4. 27	4.87					
L	1.07	1.47					
M	2. 03	2. 92					
N	0.30	0.64					

Maximum Ratings and Electrical Characteristics @T 5°C unless otherwise specified

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

Characteristic	Symbol	MUR 1010CT	MUR 1020CT	MUR 1030CT	MUR 1040CT	MUR 1050CT	MUR 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	200	300	400	500	600	٧
RMS Reverse Voltage	VR(RMS)	70	140	210	280	350	420	٧
Average Rectified Output Current @T _C = 100°C	lo	10.0						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	90					Α	
Forward Voltage @I _F = 5 .0A	VFM	1.0		1.3		1.7		٧
	IRM	10 400					μΑ	
Reverse Recovery Time (Note 1)	trr	35					nS	
Typical Junction Capacitance (Note 2)	Cj	170 130				pF		
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150					°C	

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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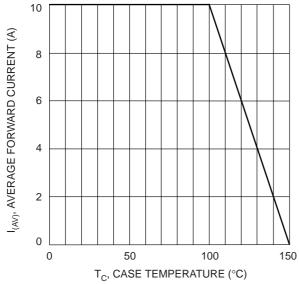


Fig. 1 Forward Current Derating Curve

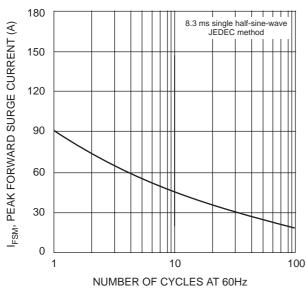
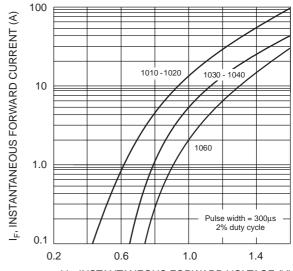
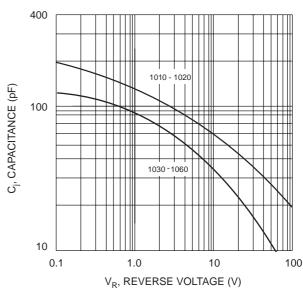


Fig. 3 Max Non-Repetitive Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



V_R, REVERSE VOLTAGE (V)
Fig. 4 Typical Junction Capacitance