MUR2010CT - MUR2060CT

20.0A GLASS PASSIVATED SUPERFAST RECTIFIER

TO-220AB

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

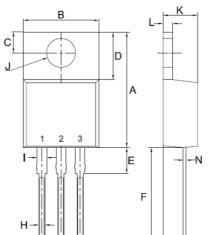
Polarity: See Diagram

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							
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. 14 ø					
K	4. 27	4.87					
L	1.07	1.47					
M	2.03	2. 92					
N	0.30	0.64					

Pin 1 + 0 Pin 2 - 0 Pin 3 + 0 Pin 3	+
Pin 3 + 0	Case

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	MUR 2010CT	MUR 2020CT	MUR 2030CT	MUR 2040CT	MUR 2050CT	MUR 2060CT	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 =10 .0A	VFM	1.0		1.3		1.7		٧
	lкм	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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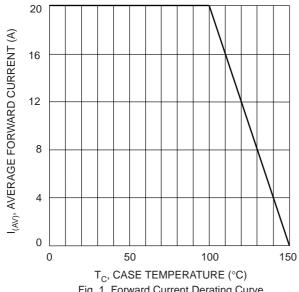
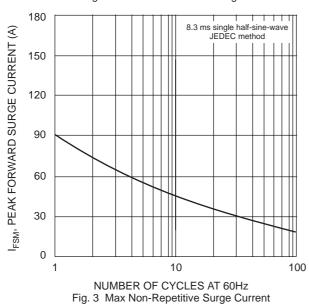
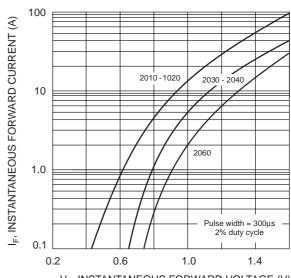


Fig. 1 Forward Current Derating Curve





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

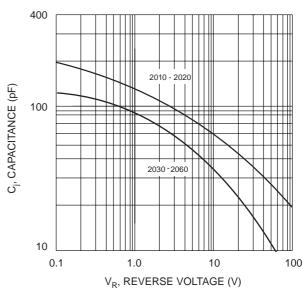


Fig. 4 Typical Junction Capacitance