## MURF2010CT-MURF2060CT

#### 20.0A GLASS PASSIVATED SUPER FAST RECTIFIER

**TO-220F** 

#### **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-220F, Molded Plastic

Terminals: Plated Leads Solderable per

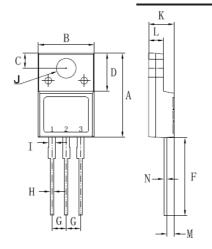
MIL-STD-202, Method 208

Polarity: See Diagram

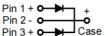
Weight: 1.81 grams (approx.)

Mounting Position: Any

• Lead Free: For RoHS / Lead Free Version



ITO-220AB Unit:mm							
DIM	MIN	MAX					
A	14. 50	15. 50					
В	9. 50	10.50					
С	2. 50	2. 90					
D	6. 30	7.30					
Е	3. 30	4.30					
F	13.00	14.00					
G	2.35	2.75					
Н	0.30	0.90					
I	0. 90	1.50					
J	3. 20	3.80					
K	4. 24	4.84					
L	2. 52	2.92					
М	1.09	1.49					
N	0. 47	0.63					



### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

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

Characterisic	SYMBOL	MURF 2010CT	MURF 2020CT	MURF 2030CT	MURF 2040CT	MURF 2050CT	MURF 2060CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	100	200	300	400	500	600	V
Maximum Average Forward Rectified Current Tc=100°C	IF(AV)	20.0						А
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	lfsm	90						A
Maximum Instantaneous Forward Voltage @10.0 A	VF	1.0			1.3	1.7		V
Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C	lR	10.0 250						uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35						nS
Typical junction Capacitance (Note 2)	Cl	170 130				pF		
Typical Thermal Resistance (Note 3)	Resc	3.5						°CW
Operating Junction 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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