

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- · Glass Passivated Chip
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR2010FCT	MUR2010FCT	100V	70V	100V
MUR2015FCT	MUR2015FCT	150V	105V	150V
	MUR2020FCT		140V	200V
MUR2040FCT	MUR2040FCT	400V	280V	400V
MUR2060FCT	MUR2060FCT	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

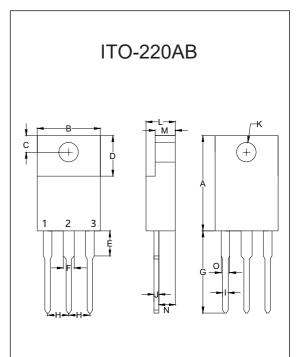
Average Forward Current	I _{F(AV)}	20A	T _C =90°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine
Maximum Forward Voltage Drop Per Element MUR2010FCT-2020FCT MUR2040FCT MUR2060FCT	▼⊦	0.975V 1.3V 1.5V	I _{FM} =10A T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1μΑ 500μΑ	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time MUR2010FCT-2020FCT MUR2040FCT-2060FCT	-11	35ns 50ns	I _F =0.5A; I _R =1.0A; Irr=0.25A

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure



20 Amp Super Fast Glass Passivated Rectifier 100 to 600 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.567	0.642	14.40	16.30	
В		0.421		10.70	
O	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
Ш		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Н	0.100		2.55		
I		0.035		0.90	
J		0.032		0.80	
K	0.102	0.150	2.60	3.80	Ф
L		0.201		5.10	
М		0.140		3.56	
Z	0.083	0.126	2.10	3.20	
0		0.071		1.80	



Curve Characteristics

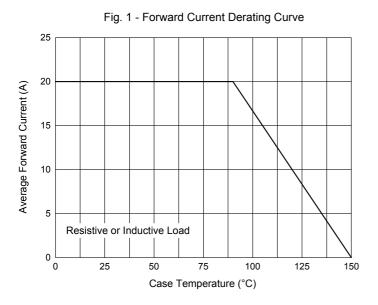


Fig. 3 - Typical Instantaneous Forward Characteristics

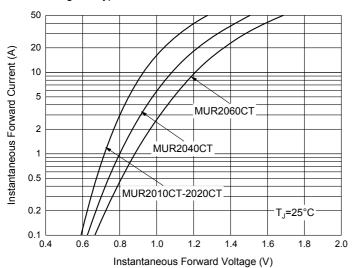


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

175

150

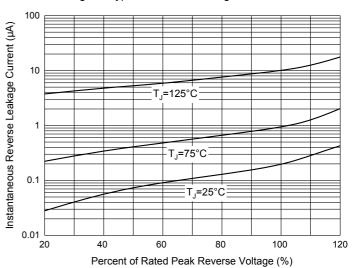
150

100

100

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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