

Features

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

Maximum Ratings

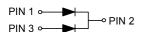
- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Typical Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR1005FCT	MUR1005FCT	50V	35V	50V
MUR1010FCT	MUR1010FCT	100V	70V	100V
MUR1015FCT	MUR1015FCT	150V	105V	150V
MUR1020FCT	MUR1020FCT	200V	140V	200V
MUR1040FCT	MUR1040FCT	400V	280V	400V
MUR1060FCT	MUR1060FCT	600V	420V	600V

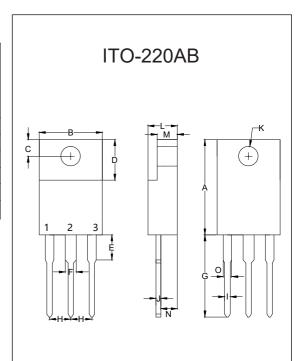
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10A	T _C =90°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MUR1005FCT-1020FCT MUR1040FCT MUR1060FCT	V _F	0.975V 1.3V 1.5V	I _{FM} =5A T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 500μΑ	T _J =25°C; T _J =125°C
Typical Junction Capacitance	CJ	62pF	Measure at 1MHz, V _R =4.0V
Maximum Reverse Recovery Time MUR1005FCT-1020FCT MUR1040FCT-1060FCT	t _{rr}	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



10 Amp Super Fast Recovery Rectifier 50 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	
С	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
Е		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Ι	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

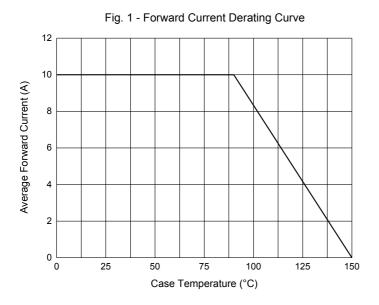


Fig. 3 - Typical Instantaneous Forward Characteristics

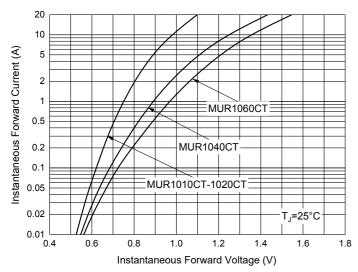


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

80

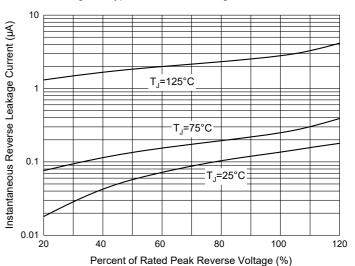
60

80

-8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics



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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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MUR1040FCT-BP MUR1020FCT-BP MUR1060FCT-BP