

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			105V	150V
MUR1020FCT	MUR1020FCT	200V	140V	200V
MUR1040FCT	MUR1040FCT	400V	280V	400V
MUR1060FCT	MUR1060FCT	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

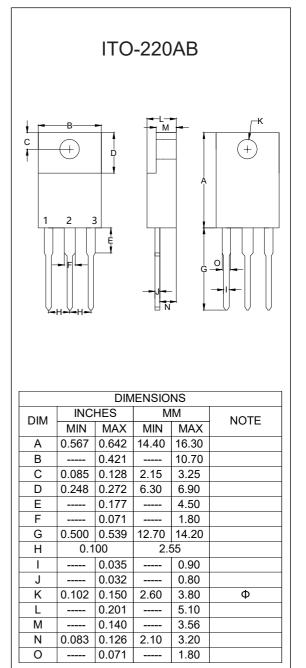
Average Forward Current	$I_{F(AV)}$	10A	T _C =90⁰C		
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine		
Maximum Instantaneous Forward Voltage MUR1005FCT-1020FCT MUR1040FCT MUR1060FCT	V _F	0.975V 1.3V 1.5V	I _{FM} =5A T _J =25⁰C		
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 500μΑ	TJ=25ºC; TJ=125ºC		
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

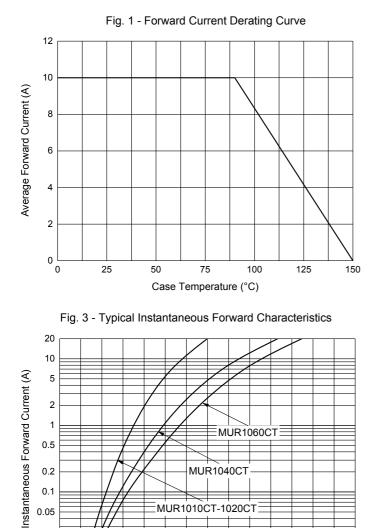
PIN 1 ⊶ -• PIN 2 PIN 3 ~

10 Amp Super Fast Recovery Rectifier 50 to 600 Volts





Curve Characteristics



MUR1060CT

TJ=25°C

1.6

1.8

MUR1040CT

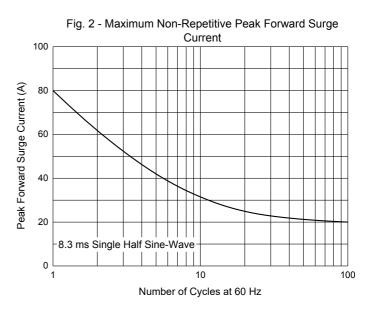
1.2

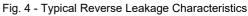
1.4

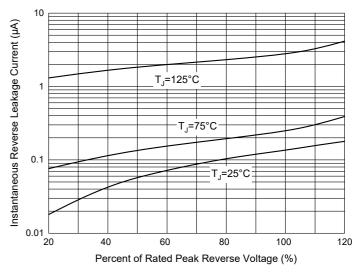
MUR1010CT-1020CT

Instantaneous Forward Voltage (V)

1.0







1

0.5

0.2

0.1

0.05 0.02

0.01 – 0.4

0.6

0.8



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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