

Micro Commercial Components



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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High surge forward current capability
- Glass passivated chip
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Junction Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent PeakÄJ^ç^¦•^ 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 1005FCT-1020FCT 1040FCT 1060FCT	V _F	0.975V 1.30V 1.50V	I _{FM} = 5.0A; T _A = 25℃
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 500μΑ	T _A = 25℃ T _A = 125℃
Typical Junction Capacitance	CJ	62pF	Measure at 1MHz, V_R =4.0V
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	2.0℃/W	
Maximum Reverse Recovery Time 1005FCT-1020FCT 1040FCT-1060FCT	t _{rr}	35ns 50ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

MUR1005FCT THRU MUR1060FCT

10 Amp Super Fast Recovery Rectifier 50 to 600 Volts

ITO-220AB



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.583	.642	14.80	16.30	
В		.406		10.30	
С	.100	.112	2.55	2.85	
D	.248	.272	6.30	6.90	
E		.161		4.10	
F		.071		1.80	
G	.512	.543	13.00	13.80	
Н	.100		2.55		
1		.035		0.90	
J		.032		0.80	
K	.118	.134	3.00	3.40	Ø
L		.189		4.80	
М		.130		3.30	
Ν	.098	.114	2.50	2.90	
0		.055		1.40	

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■ Characteristics(Typical)

FIG1: Forward Current Derating Curve

FIG2:Surge Forward Current Capadility



FIG 5 Diagram of circuit and Testing wave form of reverse recovery time



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Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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