



Micro Commercial Components

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Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- · Glass passivated chip
- Super fast switching time for hight efficiency
- High surge capacity
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: 55°C to +150°C
- Storage Temperature: 55°C to +150°C

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak	Voltage	Blocking
		Reverse		Voltage
		Voltage		
MUR1005	MUR1005	50V	35V	50V
MUR1010	MUR1010	100V	70V	100V
MUR1020	MUR1020	200V	140V	200V
MUR1040	MUR1040	400V	280V	400V
MUR1060	MUR1060	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

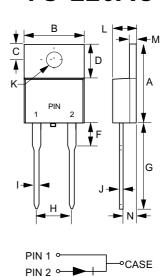
Average Forward Current	$I_{F(AV)}$	10.0A	T _C = 100°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Forward Voltage Drop Per			
Element 1005-1020 1040-1060	V_{F}	1.30V 1.5V	I _{FM} = 10A T _{.1} = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5uA 250uA	$T_{J} = 25^{\circ}C$ $T_{J} = 125^{\circ}C$
Maximum Reverse Recovery Time 1005-1020 1040-1060	T _{rr}	35ns 50ns	I _F =0.5A, I _r =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	160pF	Measured at 1.0MHz, V _R =4.0V

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

MUR1005 THRU MUR1060

10 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

TO-220AC



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.560	.625	14.22	15.88		
В	.380	.420	9.65	10.67		
С	.100	.135	2.54	3.43		
D	.230	.270	5.84	6.86		
F		.250		6.35		
G	.500	.580	12.70	14.73		
Н	.190	.210	4.83	5.33		
- 1	.020	.045	0.51	1.14		
J	.012	.025	0.30	0.64		
K	.139	.161	3.53	4.09	Ø	
L	.140	.190	3.56	4.83		
M	.045	.055	1.14	1.40		
N	.080	.115	2.03	2.92		

MUR1005 thru MUR1060



FIG.1 - FORWARD CURRENT DERATING CURVE

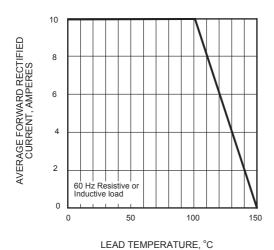


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

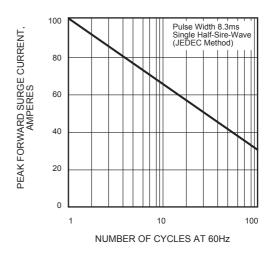


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

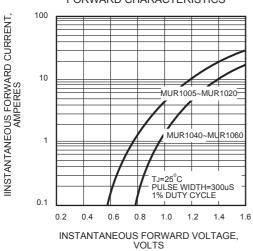


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

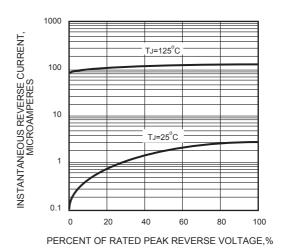
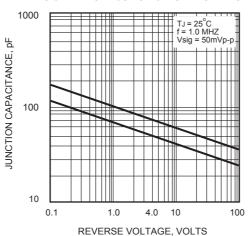


FIG.5 - TYPICAL JUNCTION CAPACITANCE





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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