Features

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Commercial Compone

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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 Current Capability
- Low Power Loss, High Efficiency
- Low Reverse Leakage Curren
- Super Fast Switching Speed For High Efficiency

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 3.0°C/W Junction to Case

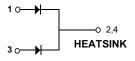
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURB1010CT	100V	70V	100V
MURB1020CT	200V	140V	200V
MURB1040CT	400V	280V	400V
MURB1060CT	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

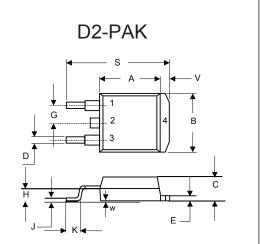
Average Forward Current	I _{F(AV)}	10A	T _c =115⁰C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Forward Voltage MURB1010CT-1020CT MURB1040CT MURB1060CT	V _F	0.95V 1.30V 1.50V	I _{FM} =5A Per Leg T _J =25⁰C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10µA	TJ=22₀C
Maximum Reverse Recovery Time MURB1010CT-1020CT MURB1040CT-1060CT	t _{rr}	35ns 50ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a. *Pulse Test: Pulse Width 300 µsec, Duty Cycle 1%

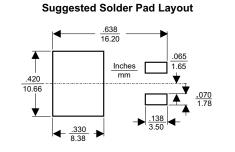
Internal Structure



10 Amp Super Fast Recovery Rectifier 100 to 600 Volts

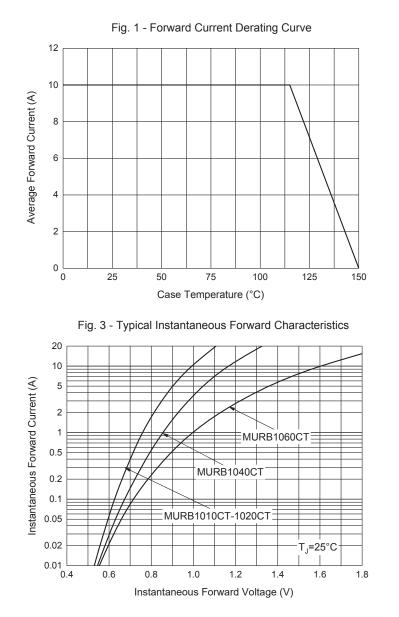


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
E	0.045	0.055	1.14	1.40	
G	0.0	010	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
К	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	





Curve Characteristics



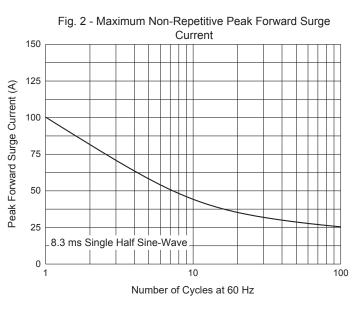
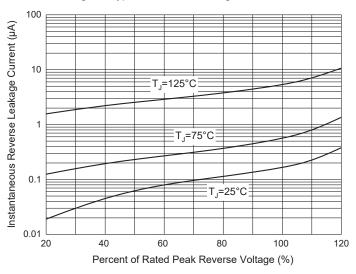


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 800pcs/Reel	
Part Number-BP	Tube: 5Kpcs/Ctn	

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

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