

Features

- 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
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Ultrafast Recovery Time

Maximum Ratings

• Operating Junction Temperature Range: -55°C to +175°C

• Storage Temperature Range: -55°C to +175°C

• Thermal Resistance: 2°C/W Junction to Case

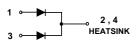
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR1020CTB	MUR1020CTB	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

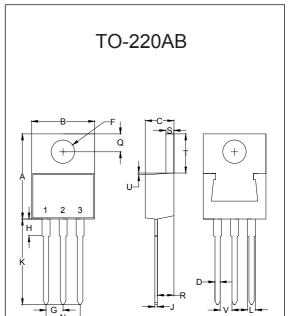
Average Rectified Forward Current	I _{F(AV)}	10A	T _C = 150°C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	0.94V(Typ) 1.18V(Max) 0.90V(Max)	I _F =5A; T _J =25°C I _F =5A; T _J =25°C I _F =5A; T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 100μΑ	T _J =25°C; T _J =125°C
Reverse Recovery	t _{rr}	13ns(Typ.) 25ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Time		14ns(Typ.) 25ns(Max.)	$I_F = 1 \text{ A; } V_R = 30 \text{ V;}$ $dI_F/dt = 100 \text{ A/}\mu\text{s}$

Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

Internal Structure



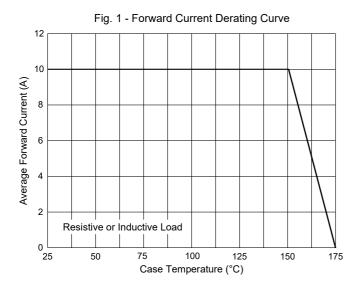
10 Amp FRED Rectifiers 200 Volts

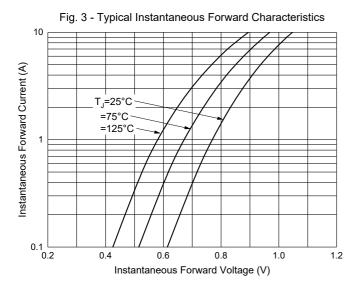


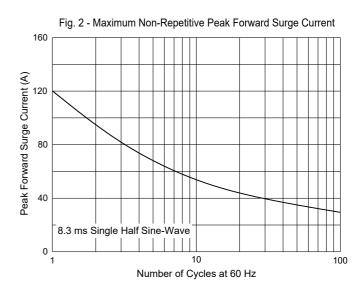
DIMENSIONS						
DIM	INC	INCHES		IM	NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.429	9.65	10.90		
С	0.140	0.201	3.56	5.10		
D	0.020	0.045	0.51	1.14		
F	0.131	0.170	3.34	4.31	Ф	
G	0.079	0.121	2.01	3.07		
Ι		0.250		6.35		
J	0.011	0.025	0.28	0.64		
K	0.500	0.580	12.70	14.73		
L	0.045	0.060	1.14	1.52		
Ν	0.158	0.242	4.02	6.14		
Q	0.087	0.135	2.22	3.43		
R	0.080	0.126	2.04	3.19		
S	0.045	0.055	1.14	1.39		
Т	0.230	0.270	5.84	6.86		
כ		0.050		1.27		
٧	0.045		1.15			

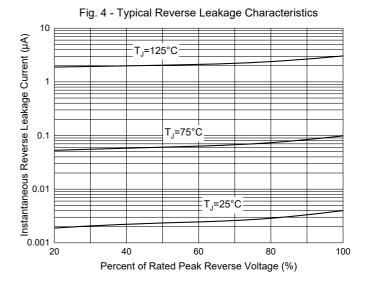


Curve Characteristics











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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