

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
- Planar Structure Die and Soft Recovery Characteristics

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

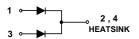
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS2020CTA	MURS2020CTA	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

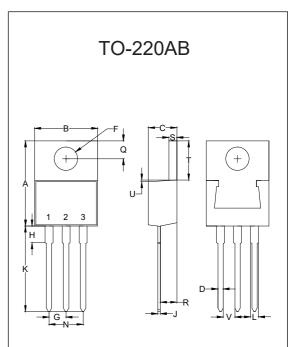
Average Rectified Forward Current	I _{F(AV)}	20A	T _C =135°C	
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine	
Instantaneous Forward Voltage	V _F	0.92V(Typ) 1.0V(Max) 0.86V(Max)	$I_F=10A; T_J=25^{\circ}C$ $I_F=10A; T_J=25^{\circ}C$ $I_F=10A; T_J=125^{\circ}C$	
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 50uA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V _R =4.0V	
Reverse Recovery	t _{rr}	25ns(Typ.) 35ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		35ns(Typ.) 50ns(Typ.)	T _J =25°C T _J =125°C	1 -404
Peak recovery current	I _{RRM}	5.3A(Typ.) 8.2A(Typ.)	T _J =25°C T _J =125°C	I _F =10A di _F /dt=-200A/µs V _R =100 V
Reverse recovery charge	Q _{rr}	90nC(Typ.) 200nC(Typ.)	T _J =25°C T _J =125°C	

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

Internal Structure



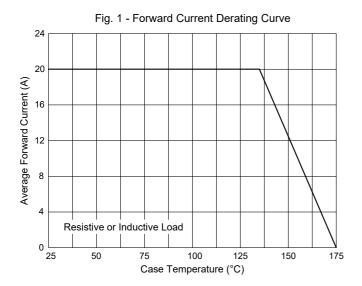
20 Amp FRED Rectifiers 200 Volts

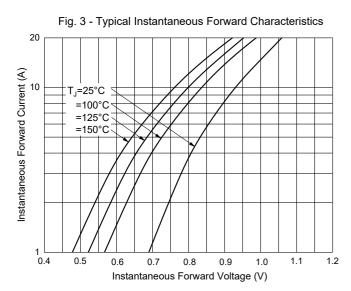


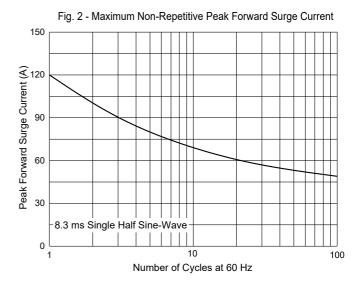
DIMENSIONS						
DIM	INC	INCHES		IM	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.429	9.65	10.90		
С	0.140	0.201	3.56	5.10		
D	0.020	0.045	0.51	1.14		
F	0.131	0.170	3.34	4.31	Ф	
G	0.079	0.121	2.01	3.07		
Н		0.250		6.35		
J	0.011	0.025	0.28	0.64		
K	0.500	0.580	12.70	14.73		
L	0.045	0.060	1.14	1.52		
N	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		
U		0.050		1.27		
V	0.045		1.15			

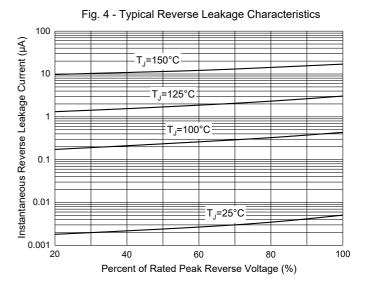


Curve Characteristics









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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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