

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
- Typical Thermal Resistance: 4°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MURS2020FCTA	MURS2020FCTA	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

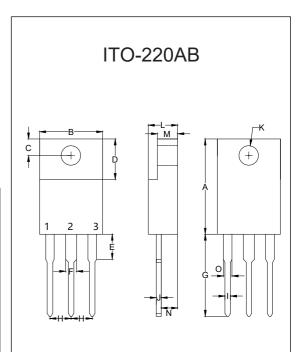
Average Rectified Forward Current	I _{F(AV)}	20A	T _C =95°C	
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Hal	f Sine
Instantaneous Forward Voltage	V _F	0.92V(Typ) 1.0V(Max) 0.86V(Max)	I _F =10A; T _J =25°C I _F =10A; T _J =25°C I _F =10A; T _J =125°C	
Maximum Reverse Current At Rated DC Blocking Voltage	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	- K 100 t

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

Internal Structure



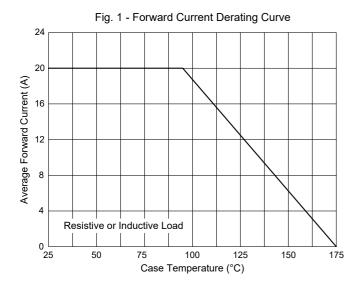
20 Amp FRED Rectifiers 200 Volts

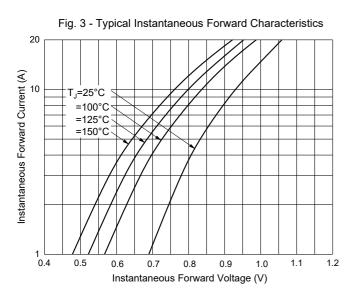


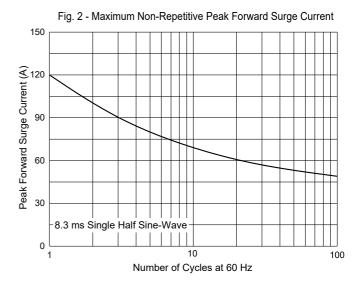
DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.567	0.642	14.40	16.30	
В		0.421		10.70	
С	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
E		0.177		4.50	
F		0.071		1.80	
G	0.500	0.539	12.70	14.20	
Н	0.1	0.100		55	
ı		0.035		0.90	
J		0.032		0.80	
K	0.102	0.150	2.60	3.80	Ф
L		0.201		5.10	
М		0.140		3.56	
N	0.083	0.126	2.10	3.20	
0		0.071		1.80	

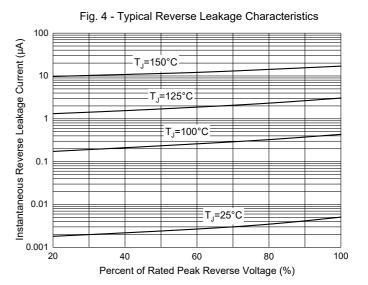


Curve Characteristics









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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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