

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 +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 4°C/W Junction to Case

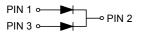
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MURS1640FCTA	MURS1640FCTA	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

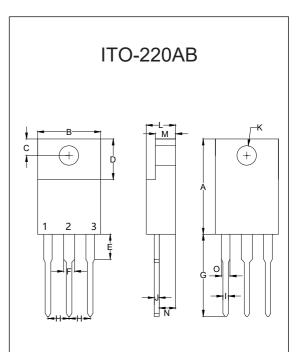
Average Rectified Forward Current	I _{F(AV)}	16A	T _C = 70°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	1.19V(Typ) 1.25V(Max) 1.10V(Max)	$I_F=8A; T_J=25^{\circ}C$ $I_F=8A; T_J=25^{\circ}C$ $I_F=8A; T_J=125^{\circ}C$
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance	CJ	40pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure



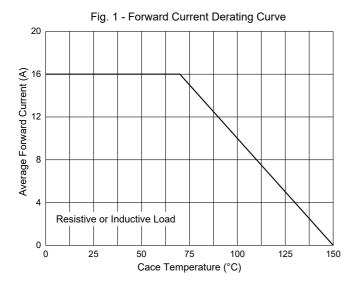
16 Amp FRED Rectifiers 400 Volts

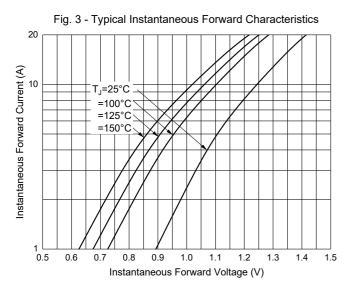


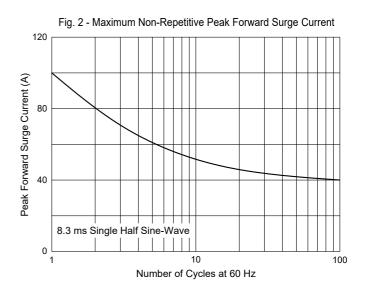
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.567	0.642	14.40	16.30		
В		0.421		10.70		
С	0.085	0.128	2.15	3.25		
D	0.248	0.272	6.30	6.90		
E		0.177		4.50		
F		0.071		1.80		
G	0.500	0.539	12.70	14.20		
Н	0.100		2.55			
I		0.035		0.90		
J		0.032		0.80		
K	0.102	0.150	2.60	3.80	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		

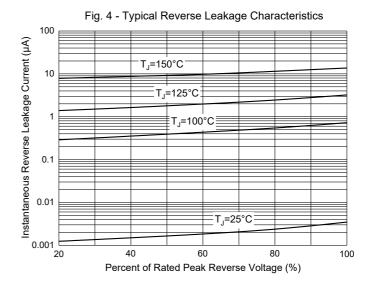


Curve Characteristics











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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