

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	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS540FA	MURS540FA	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

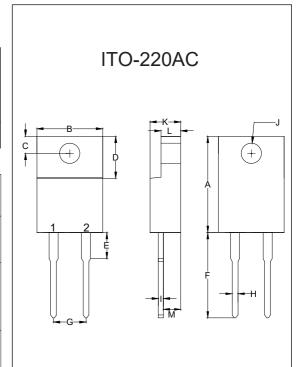
Average Rectified Forward Current	I _{F(AV)}	5A	T _C =150°C	;
Peak Forward Surge Current	I _{FSM}	70A	8.3ms,Hal	f Sine
Instantaneous Forward Voltage	V _F	1.08V(Typ) 1.25V(Max) 1.05V(Max)	I_F =5A; T I_F =5A; T I_F =5A; T	_J=25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 50uA	T _J =25°C; T _J =125°C	
Typical Junction Capacitance	CJ	35pF	Measured 1.0MHz, \	
Reverse Recovery	t _{rr}	25ns(Typ.) 35ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		30ns(Typ.) 46ns(Typ.)	T _J =25°C T _J =125°C	1 -5 ^
Peak recovery current	I _{RRM}	3.1A(Typ.) 5.1A(Typ.)	T _J =25°C T _J =125°C	I _F =5Α di _F /dt=-200Α/μs V _R =200 V
Reverse recovery charge	Q _{rr}	47nC(Typ.) 120nC(Typ.)	T _J =25°C T _J =125°C	

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

Internal Structure



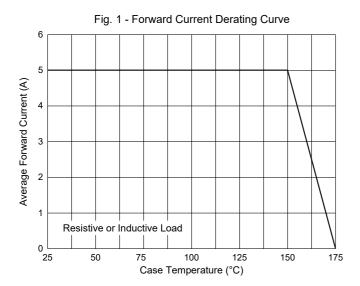
5 Amp FRED Rectifiers 400 Volts

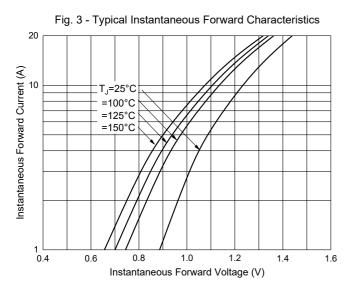


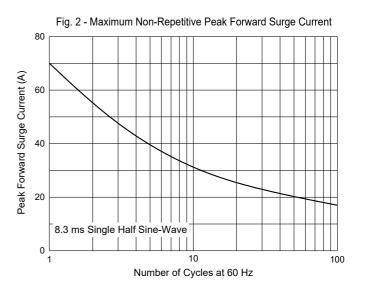
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.567	0.606	14.40	15.40		
В		0.406		10.30		
С	0.100	0.112	2.55	2.85		
D	0.248	0.272	6.30	6.90		
E		0.161		4.10		
F	0.500	0.543	12.70	13.80		
G	0.200		5.10			
Н		0.035		0.90		
ı		0.032		0.80		
J	0.102	0.134	2.60	3.40	Ф	
K		0.189		4.80		
L		0.123		3.10		
М	0.098	0.114	2.50	2.90		

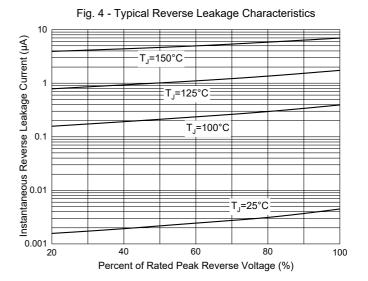


Curve Characteristics









Rev.3-3-08252022 2/3 MCCSEMI.COM



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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