

# 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
MURS540A	MURS540A	400V	280V	400V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

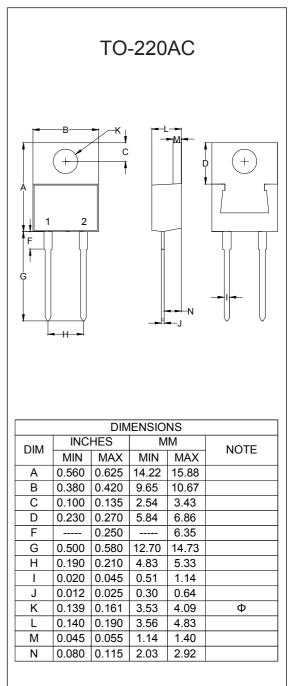
Average Rectified Forward Current	I <sub>F(AV)</sub>	5A	T <sub>C</sub> =160⁰C		
Peak Forward Surge Current	I <sub>FSM</sub>	70A	8.3ms,Hal	f Sine	
Instantaneous Forward Voltage	V <sub>F</sub>	1.08V(Typ) 1.25V(Max) 1.05V(Max)		]=25⁰C ]=25⁰C ]=125⁰C	
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5uA 50uA	T <sub>J</sub> =25⁰C; T <sub>J</sub> =125⁰C		
Typical Junction Capacitance	CJ	35pF	Measurec 1.0MHz, \		
Reverse Recovery Time	t <sub>rr</sub>	25ns(Typ.) 35ns(Max.)	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A		
		30ns(Typ.) 46ns(Typ.)	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	1 -50	
Peak recovery current	I <sub>RRM</sub>	3.1A(Typ.) 5.1A(Typ.)	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>F</sub> =5A di <sub>F</sub> /dt=-200A/µs V <sub>R</sub> =200 V	
Reverse recovery charge	Q <sub>rr</sub>	47nC(Typ.) 120nC(Typ.)	T <sub>J</sub> =25⁰C T <sub>J</sub> =125⁰C		

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

Internal Structure

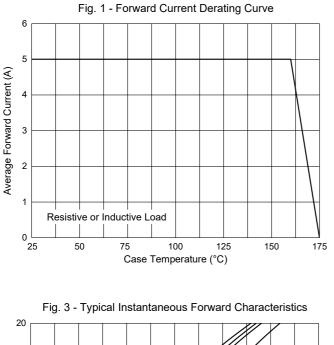
PIN 1	— CASE
PIN 2 • • •	- CASE

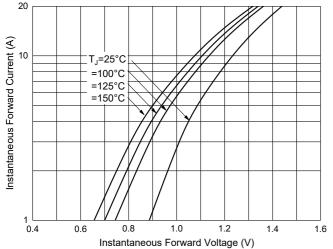
# 5 Amp FRED Rectifiers 400 Volts

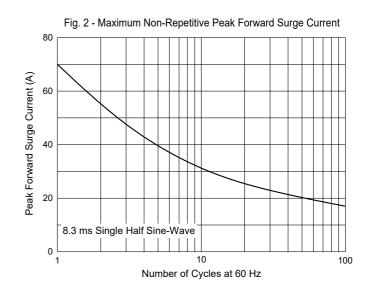




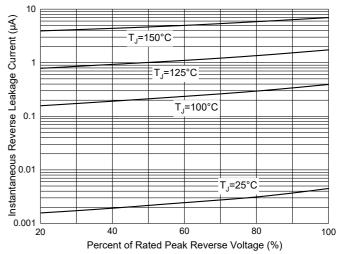
# **Curve Characteristics**













# **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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