

# 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
- 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
MURS820A	MURS820A	200V	140V	200V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

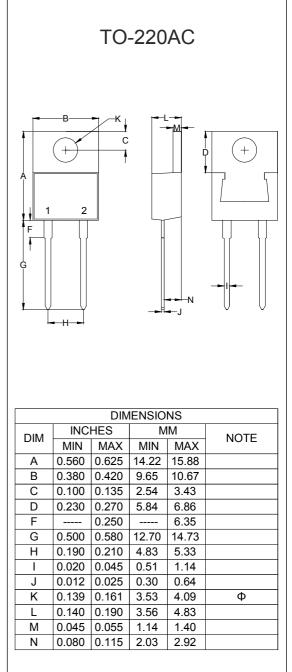
Average Rectified Forward Current	I <sub>F(AV)</sub>	8.0A	T <sub>C</sub> = 135°C
Peak Forward Surge Current	I <sub>FSM</sub>	100A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	0.9V(Typ) 1.0V(Max) 0.85V(Max)	I <sub>F</sub> =8A; T <sub>J</sub> =25⁰C I <sub>F</sub> =8A; T <sub>J</sub> =25⁰C I <sub>F</sub> =8A; T <sub>J</sub> =125⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 50μΑ	Tյ=25⁰C; Tյ=125⁰C
Maximum Reverse Recovery Time	t <sub>rr</sub>	35ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A
Typical Junction Capacitance	CJ	65pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

#### Internal Structure

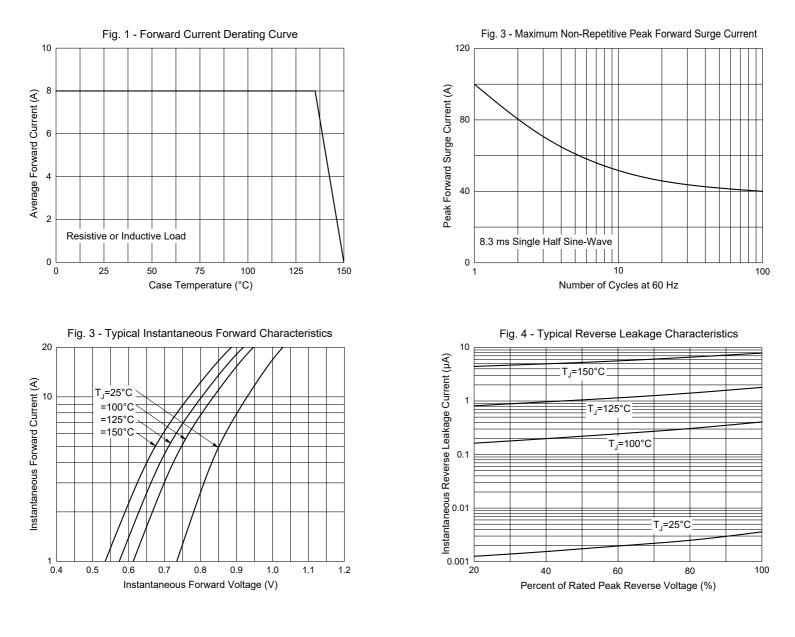
PIN 1 OF CASE

# 8 Amp FRED Rectifiers 200 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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