

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
- Moisture Sensitivity Level 1
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Planar Structure Die and Soft Recovery Characteristics

Maximum Ratings

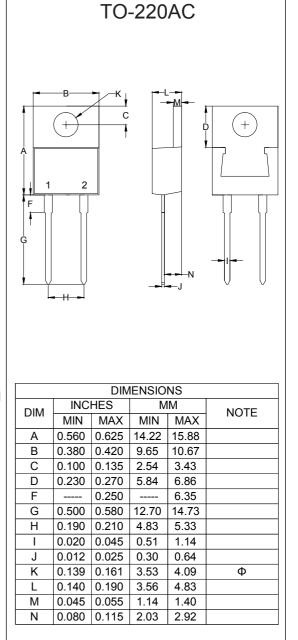
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	
MURS1560B	MURS1560B	600V	420V	600V	l

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I _{F(AV)}	15A	T _C = 95°C
Peak Forward Surge Current	I _{FSM}	160A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.9V(Typ) 2.8V(Max) 1.5V(Typ)	I _F =15A;T _J =25°C I _F =15A;T _J =25°C I _F =15A;T _J =150°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 200μΑ	T _J =25⁰C; T _J =150ºC
Typical Junction Capacitance	CJ	92pF	Measured at 1.0MHz, V _R =4.0V

15 Amp FRED Rectifiers 600 Volts



Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

Reverse Recovery	t _{rr}	20ns(Typ.) 25ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		38ns(Typ.) 70ns(Typ.)	Tյ=25⁰C Tյ=125⁰C	I _F = 15 A di _F /dt = 200 A/μs V _R = 200 V
Peak recovery current	I _{RRM}	2.45A(Typ.) 5.75A(Typ.)	TJ=25⁰C TJ=125⁰C	
Reverse recovery charge	Q _{rr}	75nC(Typ.) 200nC(Typ.)	T _J =25⁰C T _J =125⁰C	

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

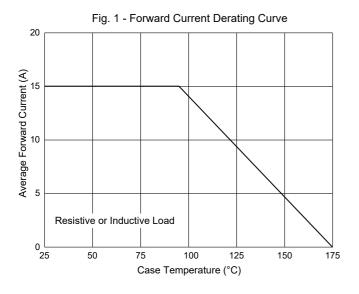
Internal Structure

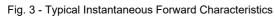
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PIN 1 •
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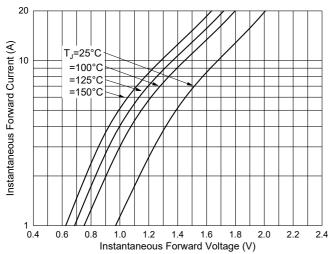
--→ CASE PIN 2 -

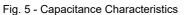


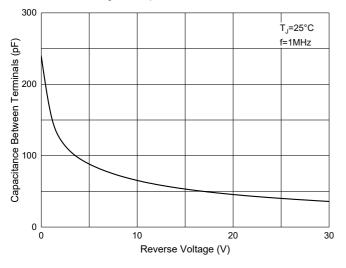
Curve Characteristics











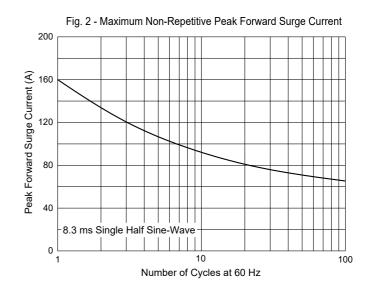


Fig. 4 - Typical Reverse Leakage Characteristics

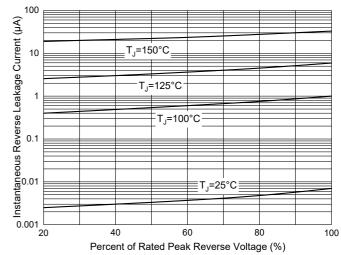
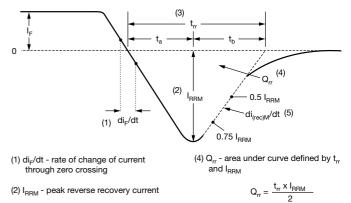
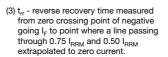


Fig. 6 - Reverse Recovery Waveform and Definitions





(5) di_{(rec)M}/dt - peak rate of change of current during t_b portion of t_{rr}



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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