

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

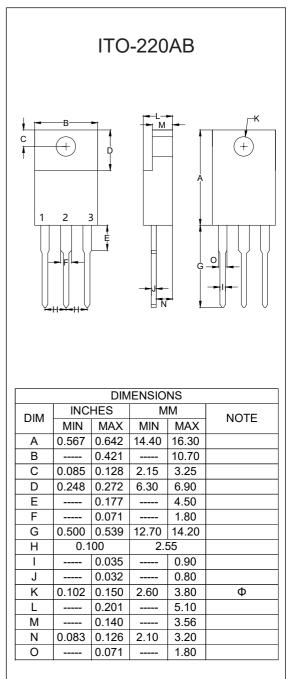
| Average Rectified Forward Current | I _{F(AV)} | 16A | T _C = 70°C |
|---|--------------------|--|---|
| Peak Forward Surge Current | I _{FSM} | 100A | 8.3ms,Half Sine |
| Instantaneous Forward Voltage | V _F | 1.19V(Typ) 1.25V(Max) 1.10V(Max) | I _F =8A; T _J =25⁰C I _F =8A; T _J =25⁰C I _F =8A; T _J =125⁰C |
| Maximum Reverse Current At Rated DC Blocking Voltage | I _R | 5μΑ 50μΑ | Tյ=25⁰C; Tյ=125⁰C |
| 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

PIN 1 ⊶ -• PIN 2 PIN 3 -







Curve Characteristics

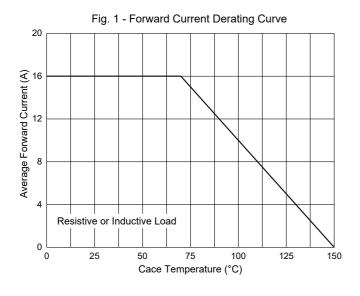
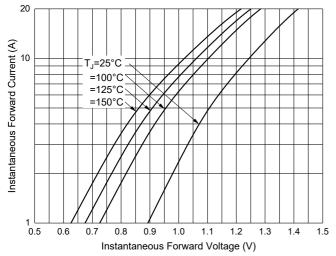
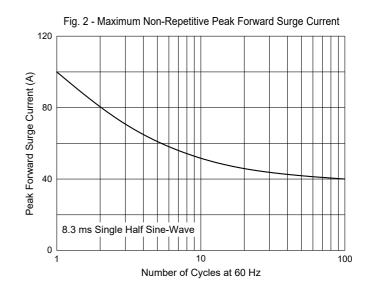
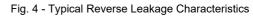
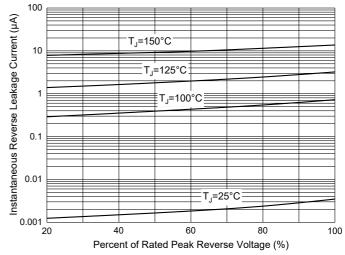


Fig. 3 - Typical Instantaneous Forward Characteristics











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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