

Features

- 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 Forward Voltage Drop And High Surge Capability
- Ultra Fast Switching Speed For High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Ambient
- Typical Thermal Resistance: 13°C/W Junction to Case
- Typical Thermal Resistance: 8.5°C/W Junction to Lead

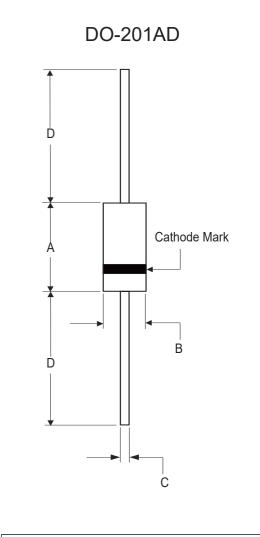
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| UF5400GP | UF5400GP | 50V | 35V | 50V |
| UF5401GP | UF5401GP | 100V | 70V | 100V |
| UF5402GP | UF5402GP | 200V | 140V | 200V |
| UF5404GP | UF5404GP | 400V | 280V | 400V |
| UF5406GP | UF5406GP | 600V | 420V | 600V |
| UF5407GP | UF5407GP | 800V | 560V | V008 |
| UF5408GP | UF5408GP | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 3.0A | See Fig. 1 |
|--|--------------------|-----------------------|---|
| Peak Forward Surge Current | I _{FSM} | 100A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage UF5400GP-5402GP UF5404GP UF5406GP-5408GP | V _F | 0.95V 1.3V 1.7V | I _{FM} =3.0A; T _A =25°C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 10μA 50μA | T _A =25°C; T _A =100°C |
| Maximum Reverse Recovery Time UF5400GP-5404GP UF5406GP-5408GP | t _{rr} | 50ns 75ns | I _F =0.5A; I _R =1.0A; I _{RR} =0.25A |
| Typical Junction Capacitance UF5400GP-5404GP UF5406GP-5408GP | Сл | 75pF 50pF | Measured at 1.0MHz, V _R =4.0V |

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

3 Amp Ultra Fast Glass Passivated Recovery Rectifier 50 to 1000 Volts



| DIMENSIONS | | | | | | |
|------------|--------|-------|-------|------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.287 | 0.374 | 7.30 | 9.50 | | |
| В | 0.189 | 0.208 | 4.80 | 5.30 | | |
| С | 0.048 | 0.052 | 1.20 | 1.30 | | |
| D | 1.000 | | 25.40 | | | |
| • | • | • | | • | | |



Curve Characteristics

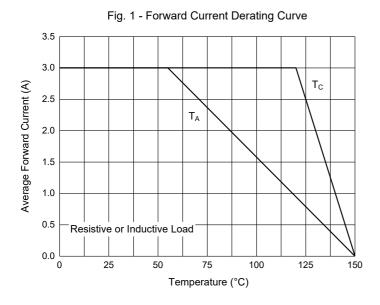


Fig. 3 - Typical Instantaneous Forward Characteristics

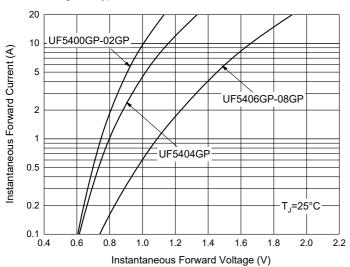


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

80

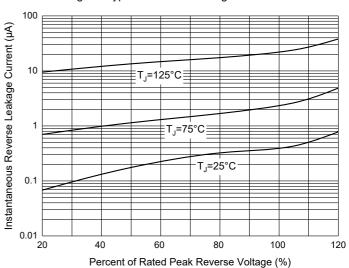
80

40

8.3 ms Single Half Sine-Wave

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

| Device | Packing | | |
|----------------|--------------------------------|--|--|
| Part Number-TP | Tape&Reel: 1.2Kpcs/Reel | | |
| Part Number-AP | Ammo Packing: 1.2Kpcs/Ammo Box | | |
| Part Number-BP | Bulk: 500pcs/Box;12Kpcs/Carton | | |

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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