



Micro Commercial Components

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Features

- Glass passivated junction
- · Superfast recovery time for hight efficiency
- Low profile package
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

| MCC Catalog | Device Marking | Maximum Recurrent | Maximum RMS | Maximum DC |
|----------------|-------------------|----------------------------|----------------|---------------------|
| Number | | Peak Reverse Voltage | Voltage | Blocking Voltage |
| MUR605CT | MUR605CT | 50V | 35V | 50V |
| MUR610CT | MUR610CT | 100V | 70V | 100V |
| MUR620CT | MUR620CT | 200V | 140V | 200V |
| MUR640CT | MUR640CT | 400V | 280V | 400V |
| MUR660CT | MUR660CT | 600V | 420V | 600V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

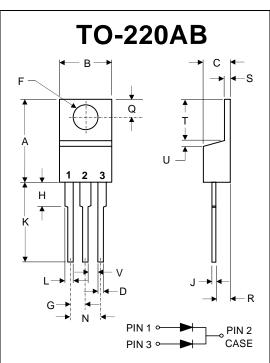
| Average Forward Current | $I_{F(AV)}$ | 6 A | T _A = 75°C | | |
|--|------------------|-------------------------|--|--|--|
| Peak Forward Surge Current | I _{FSM} | 60A | 8.3ms, half sine | | |
| Maximum Forward Voltage Drop Per Element 605CT-620CT 640CT 660CT | V_{F} | 0.975V 1.3V 1.7 V | $I_{FM} = 3 \text{ A per}$ element; $T_A = 25^{\circ}\text{C}^{*}$ | | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 5.0μA 50μA | T _A = 25°C T _A = 100°C | | |
| Maximum Reverse Recovery Time 605CT- 620CT 640CT 660CT | T _{rr} | 35ns 60ns 75ns | I _F =0.5A, I _{rr} =0.25A I _R =1.0A | | |

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

MUR605CT THRU MUR660CT

6 Amp Super Fast Glass Passivated Rectifier 50 to 600 Volts

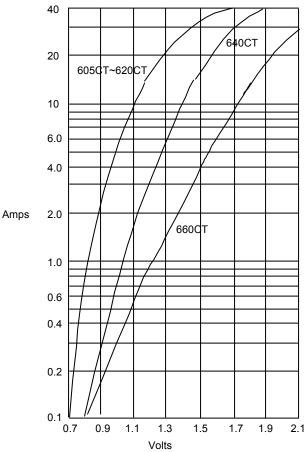


| DIMENSIONS | | | | | |
|------------|--------|------|-------|-------|------|
| | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| Α | .560 | .625 | 14.22 | 15.88 | |
| В | .380 | .420 | 9.65 | 10.67 | |
| С | .140 | .190 | 3.56 | 4.82 | |
| D | .020 | .045 | 0.51 | 1.14 | |
| F | .139 | .161 | 3.53 | 4.09 | Ø |
| G | .190 | .110 | 2.29 | 2.79 | |
| Н | | .250 | | 6.35 | |
| J | .012 | .025 | 0.30 | 0.64 | |
| K | .500 | .580 | 12.70 | 14.73 | |
| L | .045 | .060 | 1.14 | 1.52 | |
| N | .190 | .210 | 4.83 | 5.33 | |
| Q | .100 | .135 | 2.54 | 3.43 | |
| R | .080 | .115 | 2.04 | 2.92 | |
| S | .045 | .055 | 1.14 | 1.39 | |
| Т | .230 | .270 | 5.84 | 6.86 | |
| U | | .050 | | 1.27 | |
| V | .045 | | 1.15 | | |

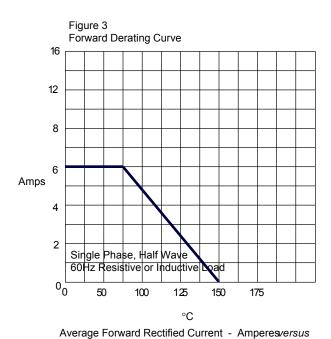


MUR605CT thru MUR660CT

Figure 1 Typical Forward Characteristics



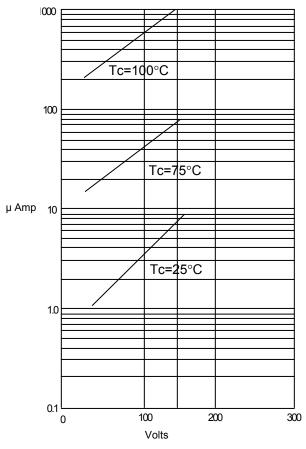
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Ambient Temperature -°C

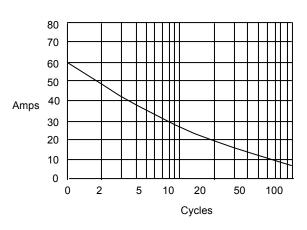
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Figure 2 Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes*versus* Percent Of Rated Peak Reverse Voltage - Volts

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

| Device | Packing |
|------------------|----------------|
| (Part Number)-BP | Bulk;1Kpcs/Box |

Note: Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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