



Micro Commercial Components

## Micro Commercial Components Corp.

### Products End of Life Notification

Issue date: Oct-7<sup>th</sup>-2008

Last Buy Date :N/A

Description and Purpose:

MCC has undergone a review of its core business and products , and

determined to discontinue below products:

| Discontinued Devices | Possible Replacements |
|----------------------|-----------------------|
| EGP10A               | HER101G               |
| EGP10B               | HER102G               |
| EGP10D               | HER103G               |
| EGP10F               | HER104G               |
| EGP10G               | HER105G               |
| EGP10J               | HER106G               |
| EGP10K               | HER107G               |
| EGP20A               | HER201G               |
| EGP20B               | HER202G               |
| EGP20D               | HER203G               |
| EGP20F               | HER204G               |
| EGP20G               | HER205G               |
| EGP20J               | HER206G               |
| EGP20K               | HER207G               |
| EGP30A               | HER301G               |
| EGP30B               | HER302G               |
| EGP30D               | HER303G               |
| EGP30F               | HER304G               |
| EGP30G               | HER305G               |
| EGP30J               | HER306G               |
| EGP30K               | HER307G               |



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**Features**

- Superfast recovery time for high efficiency
- Glass passivated cavity-free junction, Plastic case
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- ≠ Marking : Cathode band and type number
- ≠ Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

**Maximum Ratings**

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Ambient

| MCC Part Number | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|--|---------------------|-----------------------------|
| EGP30A          | 50V                                    | 35V                 | 50V                         |
| EGP30B          | 100V                                   | 70V                 | 100V                        |
| EGP30D          | 200V                                   | 140V                | 200V                        |
| EGP30F          | 300V                                   | 210V                | 300V                        |
| EGP30G          | 400V                                   | 280V                | 400V                        |
| EGP30J          | 600V                                   | 420V                | 600V                        |
| EGP30K          | 800V                                   | 560V                | 800V                        |

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

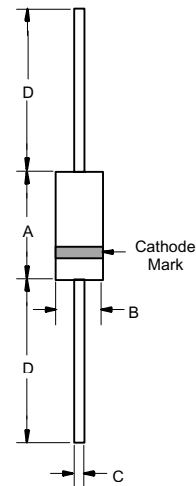
|   |             |  |  |
|---|-------------|--|--|
| Maximum Average Forward Current                         | $I_{F(AV)}$ | 3.0 A                                  | $T_A = 55^\circ\text{C}$                                       |
| Peak Forward Surge Current                              | $I_{FSM}$   | 125A                                   | 8.3ms, half sine   |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | EGP30A-30D<br>EGP30F-30G<br>EGP30J-30K | $I_F=3.0A$<br>$T_A=25^\circ\text{C}$                           |
|   |             | 1.00V                                  |  |
|   |             | 1.25V<br>1.70V                         |  |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5.0uA<br>100uA                         | $T_A=25^\circ\text{C}$<br>$T_A=125^\circ\text{C}$              |
| Reverse Recovery Time                                   | $T_{rr}$    | EGP30A-30G<br>EGP30J-30K               | $T_A=25^\circ\text{C}$<br>$I_F=0.5A, I_R=1.0A,$<br>$I_r=0.25A$ |
|   |             |  |  |
| Typical Junction Capacitance                            | $C_J$       | EGP30A-30D<br>EGP30F-30K               | Measured at<br>$f=1.0\text{MHz}$<br>$V_R=4.0V$                 |
|   |             |  |  |

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

**EGP30A  
THRU  
EGP30K**

**3.0 Amp Glass  
Passivated High  
Efficient Rectifiers  
50 to 800 Volts**

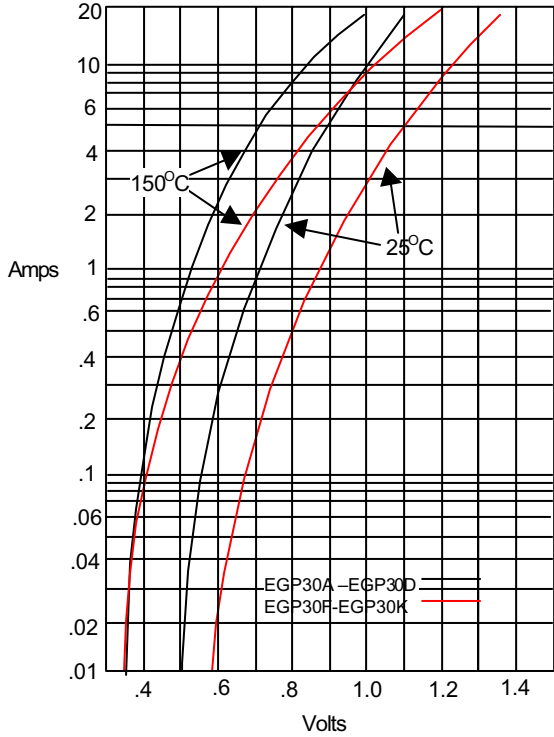
**DO-201AD**



| DIM | INCHES |      | MM    |      | NOTE |
|-----|--------|------|-------|------|------|
|     | MIN    | MAX  | MIN   | MAX  |      |
| A   | .287   | .374 | 7.30  | 9.50 |      |
| B   | .189   | .208 | 4.80  | 5.30 |      |
| C   | .048   | .052 | 1.20  | 1.30 |      |
| D   | 1.000  | ---  | 25.40 | ---  |      |

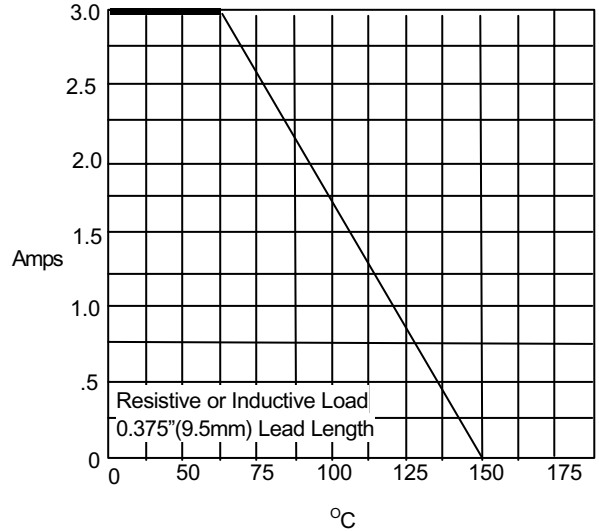
# EGP30A thru EGP30K

Figure 1  
Typical Forward Characteristics



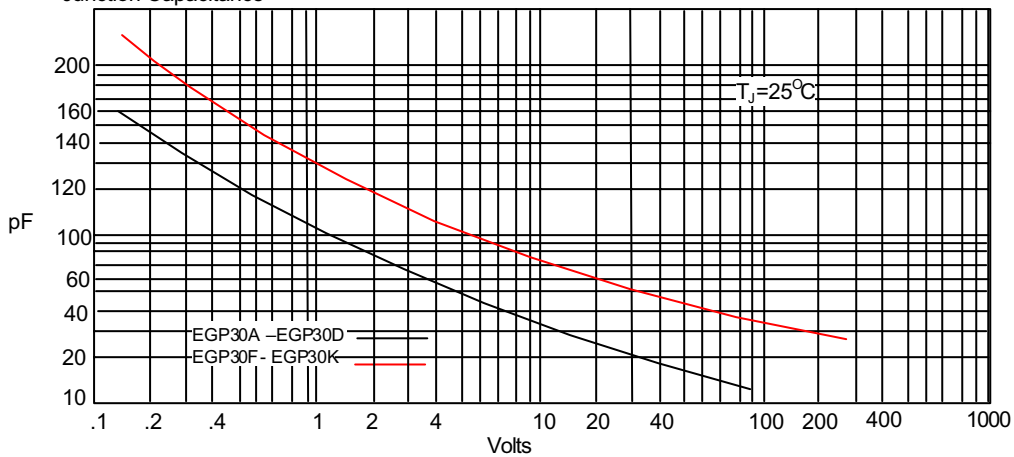
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



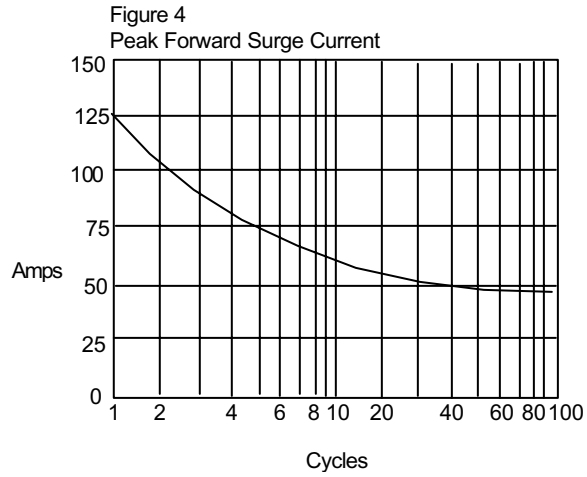
Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



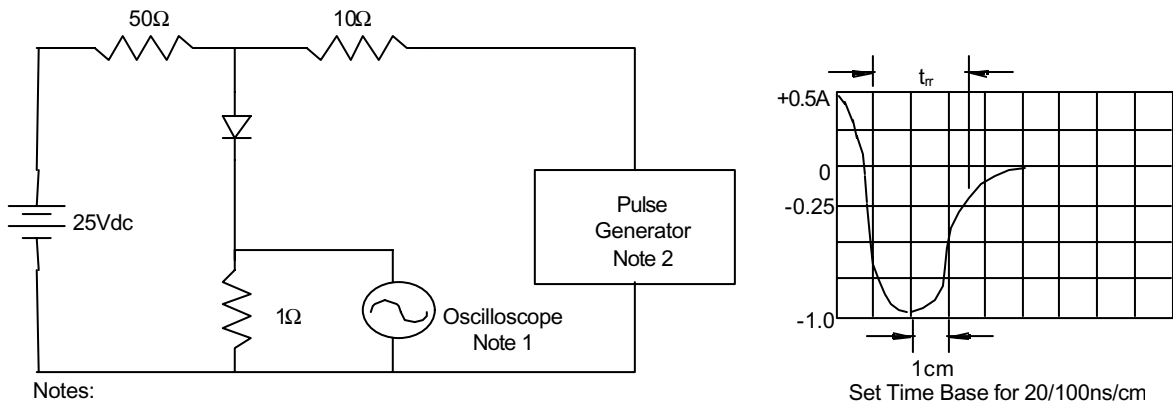
Junction Capacitance - pF versus  
Reverse Voltage - Volts

# EGP30A thru EGP30K



Peak Forward Surge Current - Amperes versus  
Number Of Cycles At 60Hz - Cycles

Figure 5  
Reverse Recovery Time Characteristic And Test Circuit Diagram





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## Ordering Information

| Device           | Packing                      |
|------------------|------------------------------|
| (Part Number)-TP | Tape&Reel; 1.2Kpcs/Reel      |
| (Part Number)-AP | Ammo Packing;1.2Kpcs/AmmoBox |
| (Part Number)-BP | Bulk;500pcs/Box              |

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