



Micro Commercial Components

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**EGP30A
THRU
EGP30K**

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

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

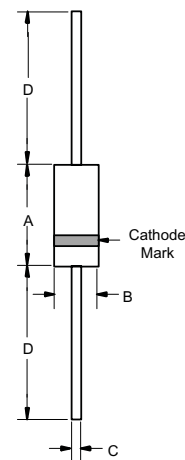
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
EGP30A	50V	35V	50V
EGP30B	100V	70V	100V
EGP30D	200V	140V	200V
EGP30F	300V	210V	300V
EGP30G	400V	280V	400V
EGP30J	600V	420V	600V
EGP30K	800V	560V	800V

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 EGP30F-30G EGP30J-30K	$I_F=3.0\text{A}$ $T_A=25^\circ\text{C}$	
Maximum DC Reverse Current At Rated DC Blocking Voltage		I_R	5.0uA 100uA	$T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$
Reverse Recovery Time		T_{rr}	EGP30A-30G EGP30J-30K	$T_A=25^\circ\text{C}$ $I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_T=0.25\text{A}$
Typical Junction Capacitance	C_J		EGP30A-30D EGP30F-30K	Measured at $f=1.0\text{MHz}$ $V_R=4.0\text{V}$

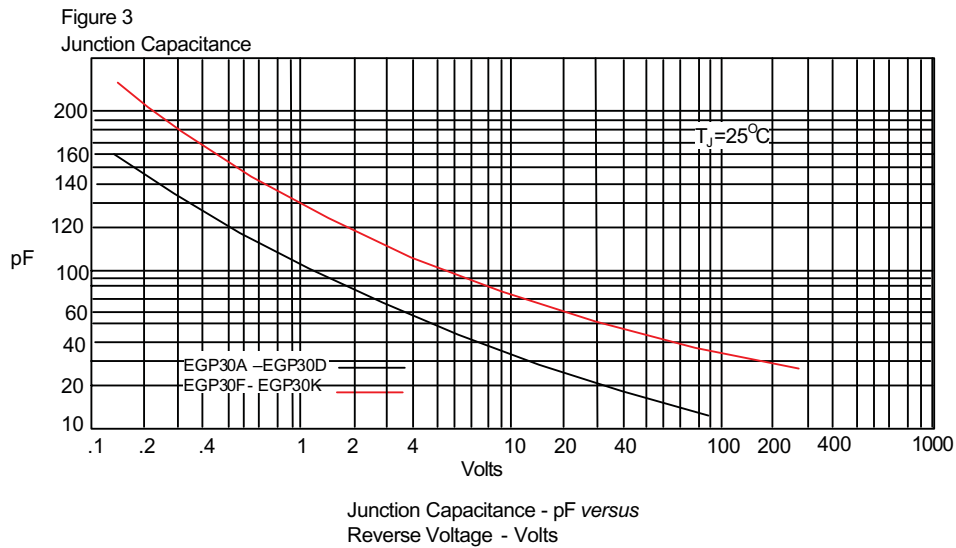
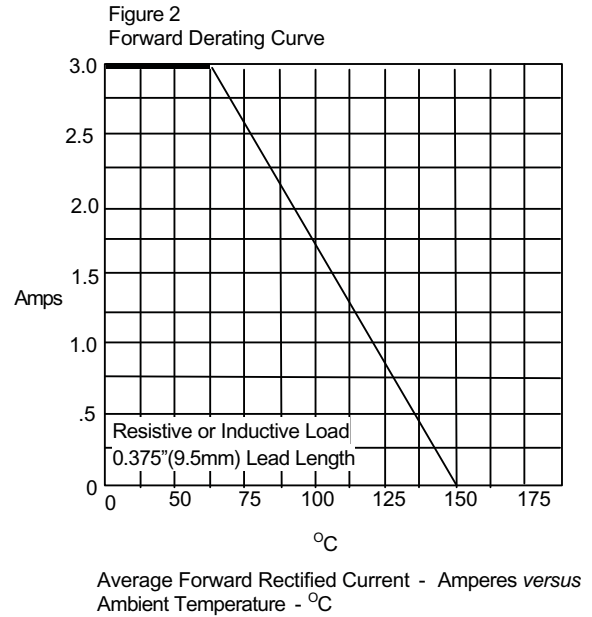
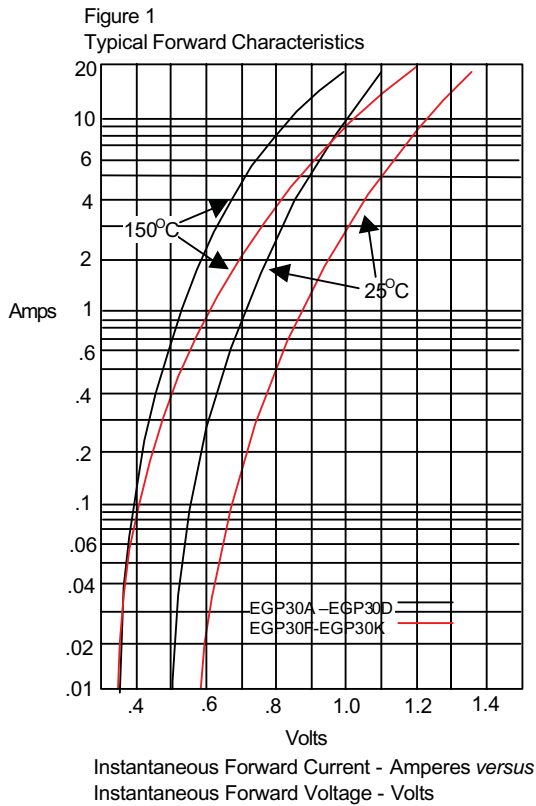
Note:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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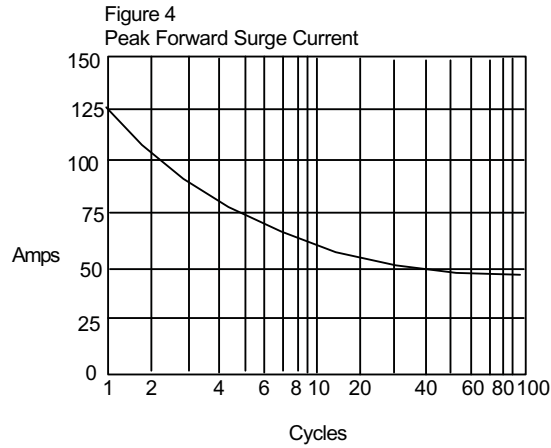


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

EGP30A thru EGP30K

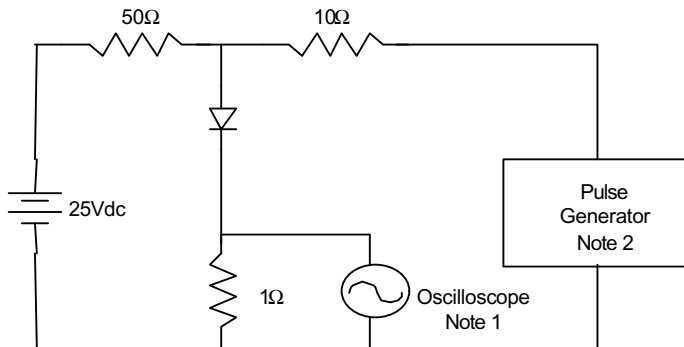


EGP30A thru EGP30K

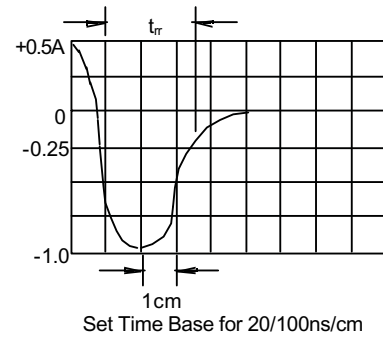


Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram



- Notes:
1. Rise Time = 7ns max.
Input impedance = 1 megohm, 22pF
 2. Rise Time = 10ns max.
Source impedance = 50 ohms
 3. Resistors are non-inductive





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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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