



Micro Commercial Components

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EGP30A THRU EGP30K

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

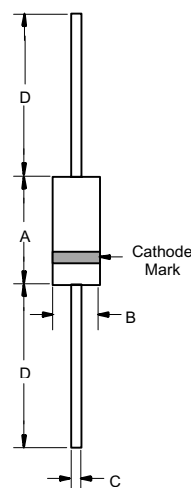
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 1.00V EGP30F-30G 1.25V EGP30J-30K 1.70V	$I_F = 3.0\text{A}$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 100μA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Reverse Recovery Time	T_{rr}	EGP30A-30G 50nS EGP30J-30K 75nS	$T_A = 25^\circ\text{C}$ $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_r = 0.25\text{A}$
Typical Junction Capacitance	C_J	EGP30A-30D 95pF EGP30F-30K 75pF	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.

3.0 Amp Glass Passivated High Efficient Rectifiers 50 to 800 Volts

DO-201AD



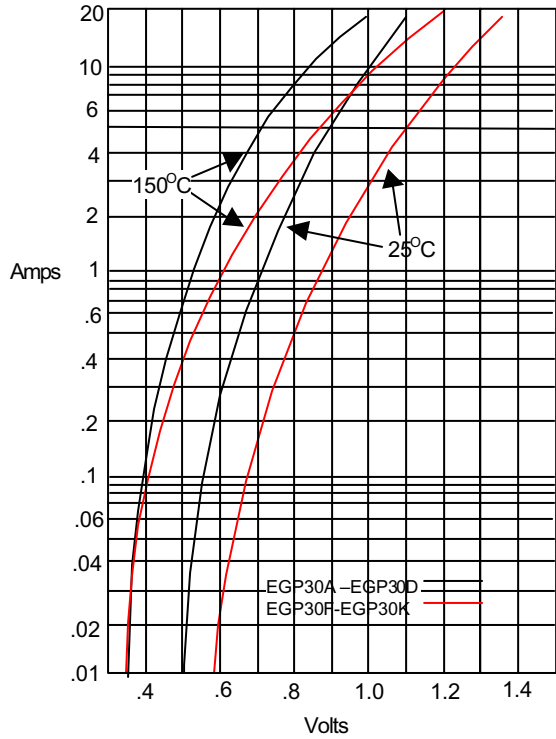
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

EGP30A thru EGP30K



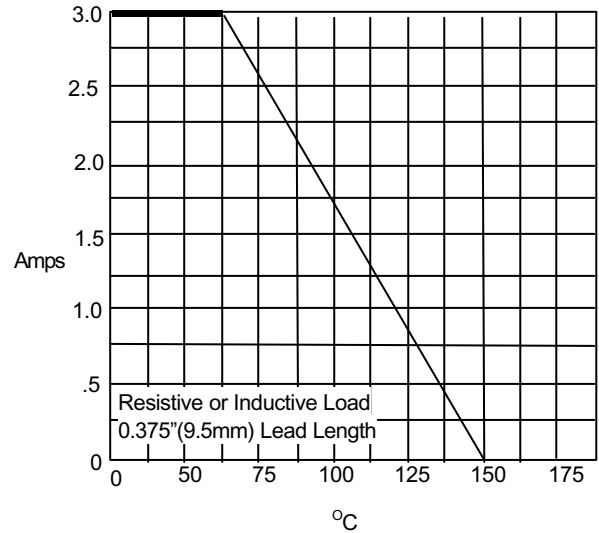
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Figure 1
Typical Forward Characteristics



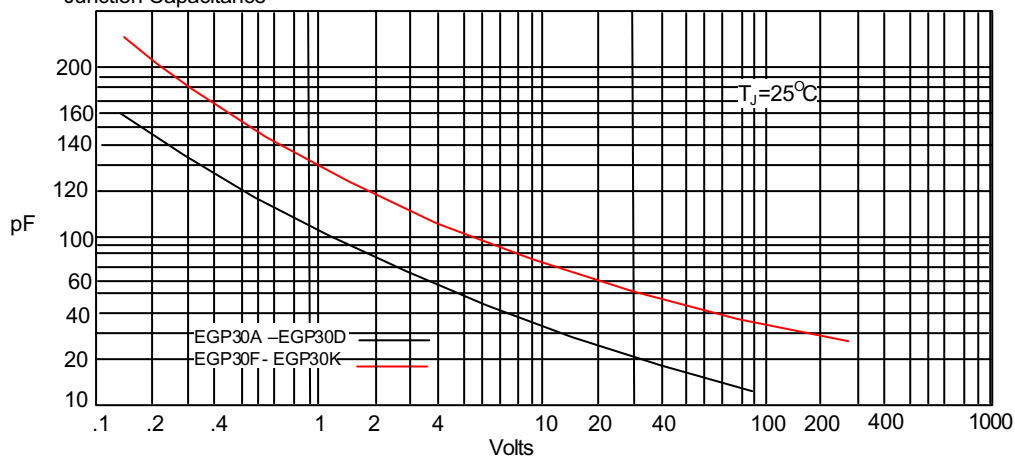
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



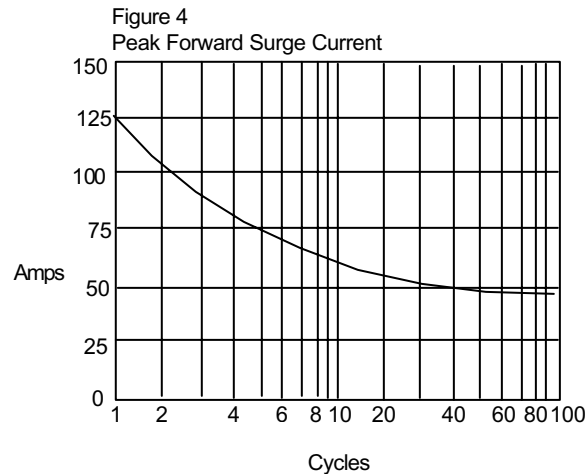
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 3
Junction Capacitance



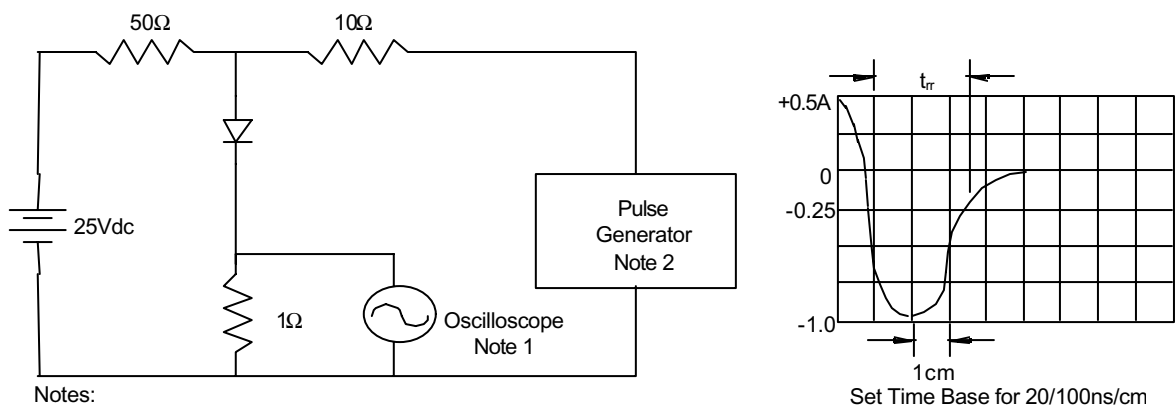
Junction Capacitance - pF versus
Reverse Voltage - Volts

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



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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