



Micro Commercial Components
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EGP30A THRU EGP30K

Features

- Superfast recovery time for high efficiency
- Glass passivated cavity-free junction, Plastic case
- Low forward voltage, high current capability
- Low leakage current

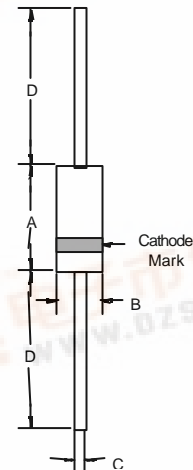
3.0 Amp Glass Passivated High Efficient Rectifiers 50 to 800 Volts

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

DO-201AE

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



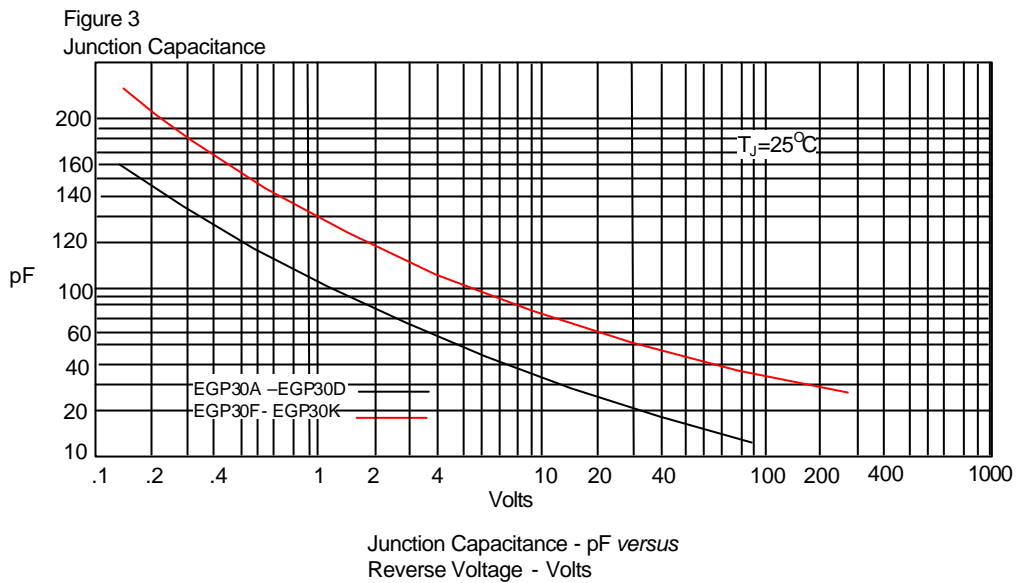
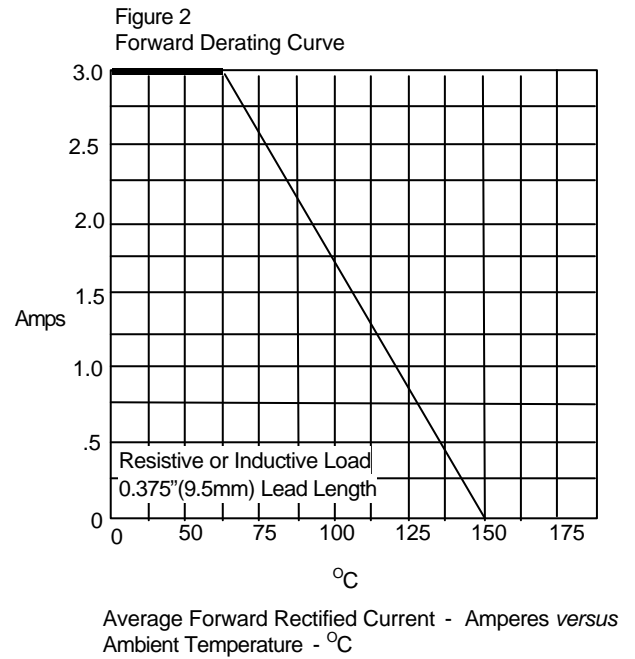
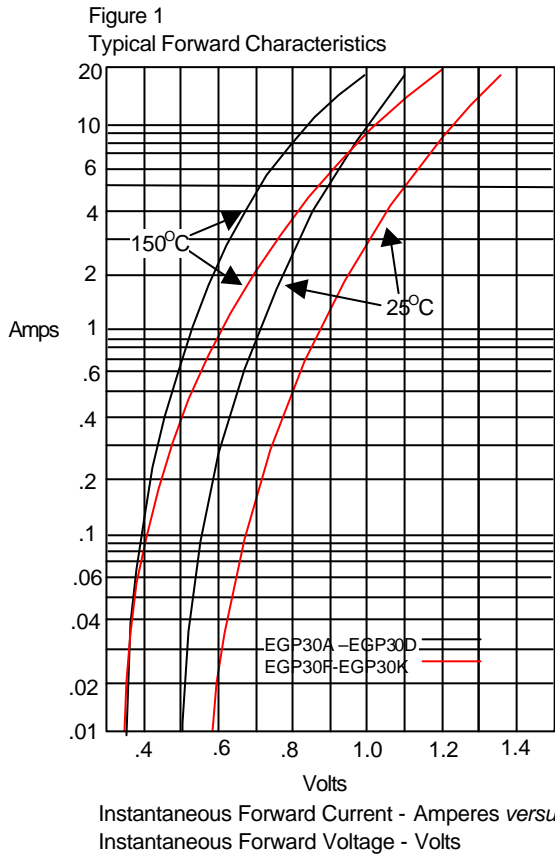
Electrical Characteristics @ 25°C Unless Otherwise Specified

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: 0.95V	$I_F = 3.0A$ $T_A = 25^\circ\text{C}$
EGP30F-30G		1.25V	
EGP30J-30K		1.70V	
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: 50nS	$T_A = 25^\circ\text{C}$ $I_F = 0.5A, I_R = 1.0A,$ $I_T = 0.25A$
EGP30J-30K		75nS	
Typical Junction Capacitance	C_J	EGP30A-30D: 95pF	Measured at $f = 1.0\text{MHz}$ $V_R = 4.0V$
EGP30F-30K		75pF	

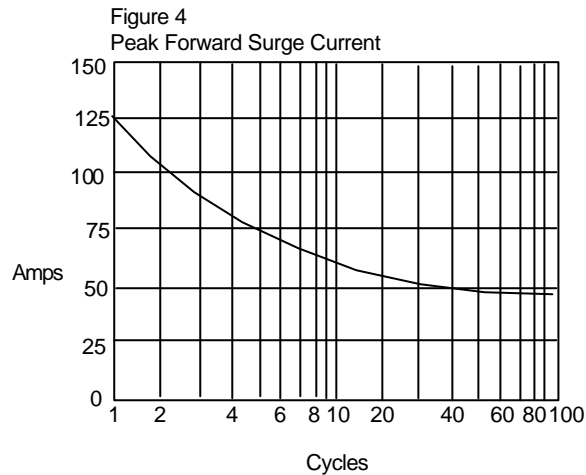
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	---	.370	---	9.50	
B	---	.250	---	6.40	
C	.038	.042	0.96	1.06	
D	1.000	---	25.40	---	



EGP30A thru EGP30K

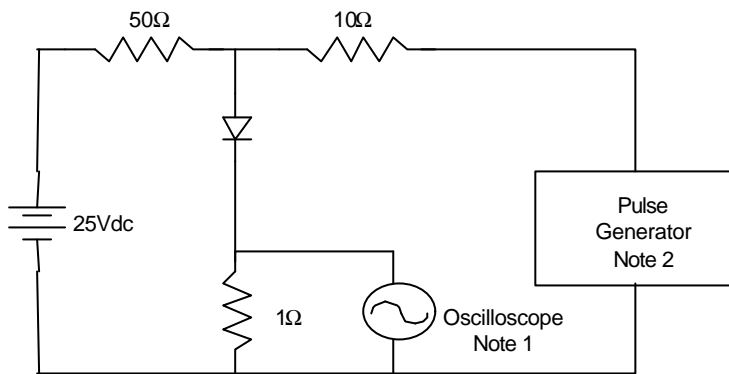


EGP30A thru EGP30K



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

