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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

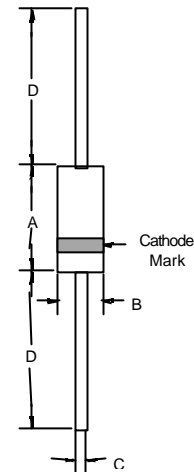
**3.0 Amp Glass
Passivated High
Efficient Rectifiers
50 to 800 Volts**

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

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



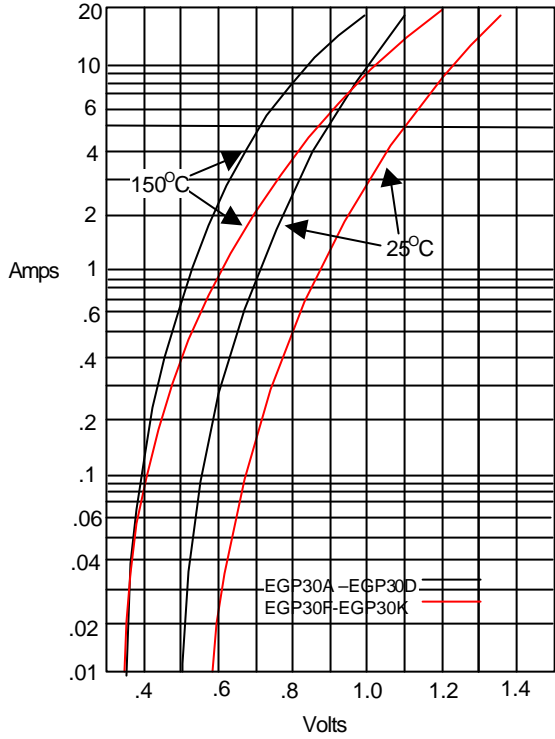
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

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

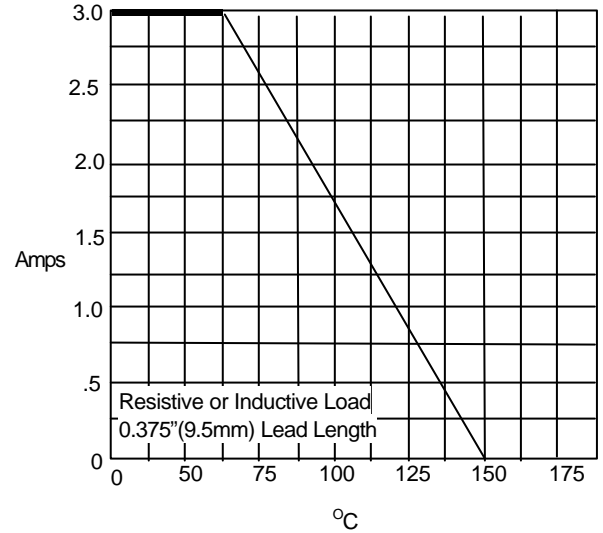
EGP30A thru EGP30K

Figure 1
Typical Forward Characteristics



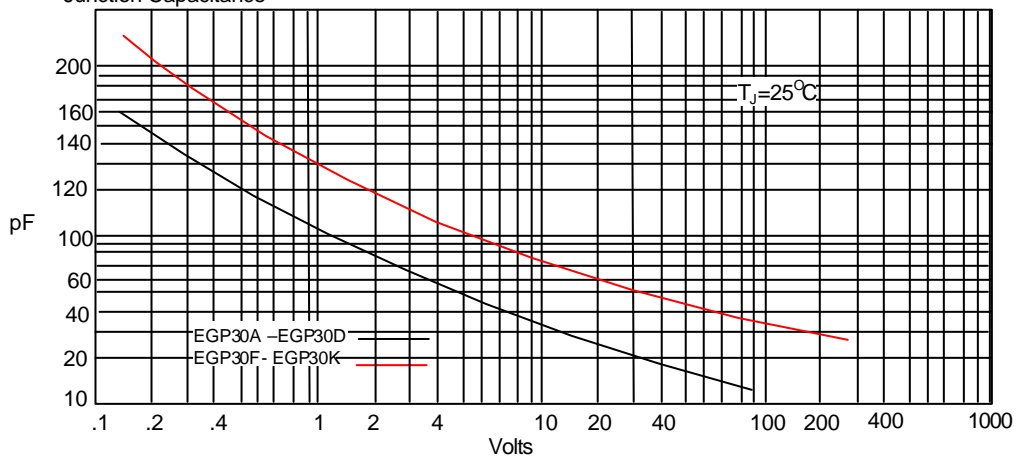
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



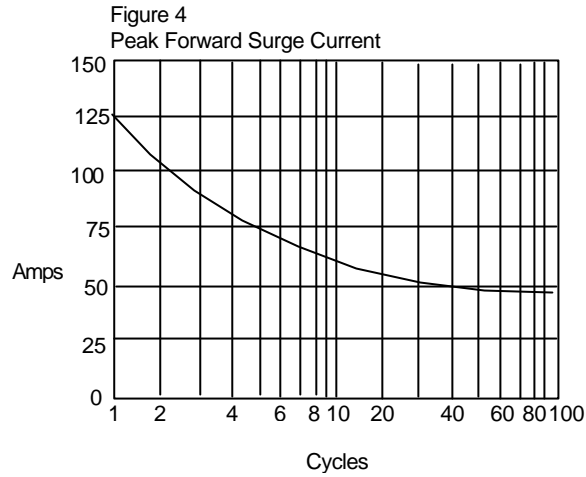
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

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

