Obsolete

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

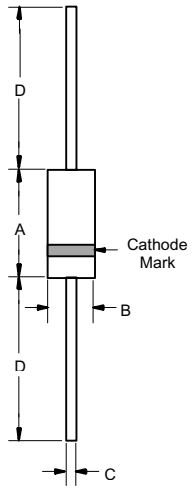
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
EGP30A	50V	35V	50V
EGP30B	100V	70V	100V
EGP30D	200V	140V	200V
EGP30F	300V	210V	300V
EGP30G	400V	280V	400V
EGP30J	600V	420V	600V
EGP30K	800V	560V	800V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	3.0 A	T_A = 55°C
Peak Forward Surge Current	I_{FSM}	125A	8.3ms, half sine
Maximum Instantaneous Forward Voltage EGP30A-30D EGP30F-30G EGP30J-30K	V_F	1.00V 1.25V 1.70V	I_F=3.0A T_A=25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 100μA	T_A=25°C T_A=125°C
Reverse Recovery Time EGP30A-30G EGP30J-30K	T_{rr}	50nS 75nS	T_A=25°C I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
Typical Junction Capacitance EGP30A-30D EGP30F-30K	C_J	95pF 75pF	Measured at f=1.0MHz V_R=4.0V

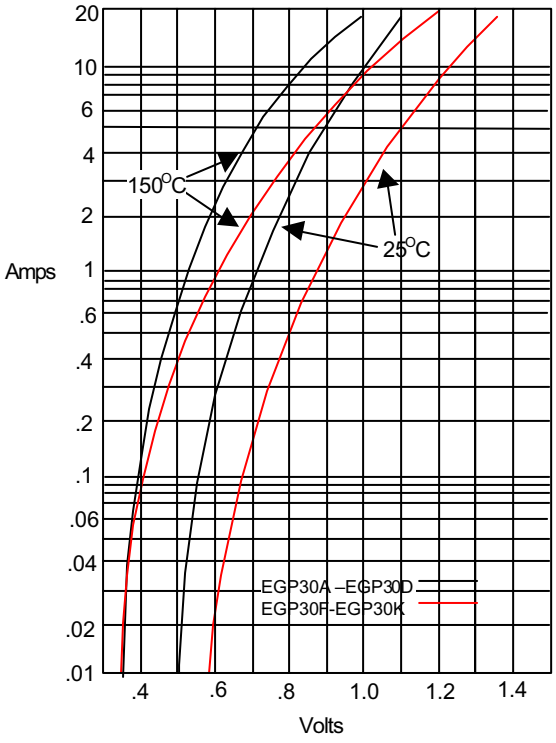
Note:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

DO-201AD



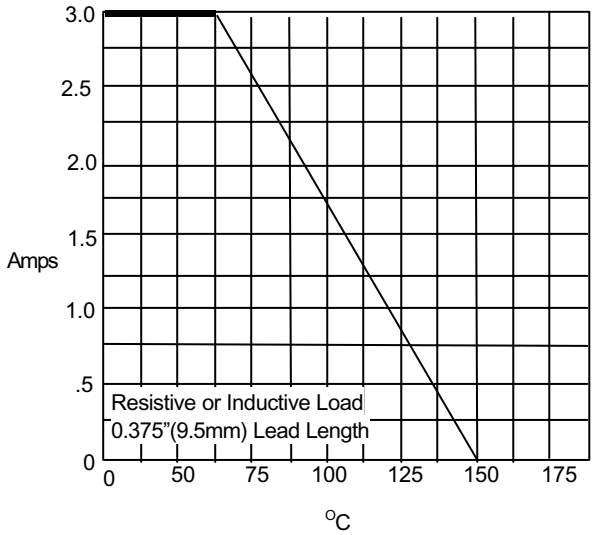
DIM	INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	.287	.374	7.30	9.50	
B	.189	.208	4.80	5.30	
C	.048	.052	1.20	1.30	
D	1.000	---	25.40	---	

Figure 1
Typical Forward Characteristics



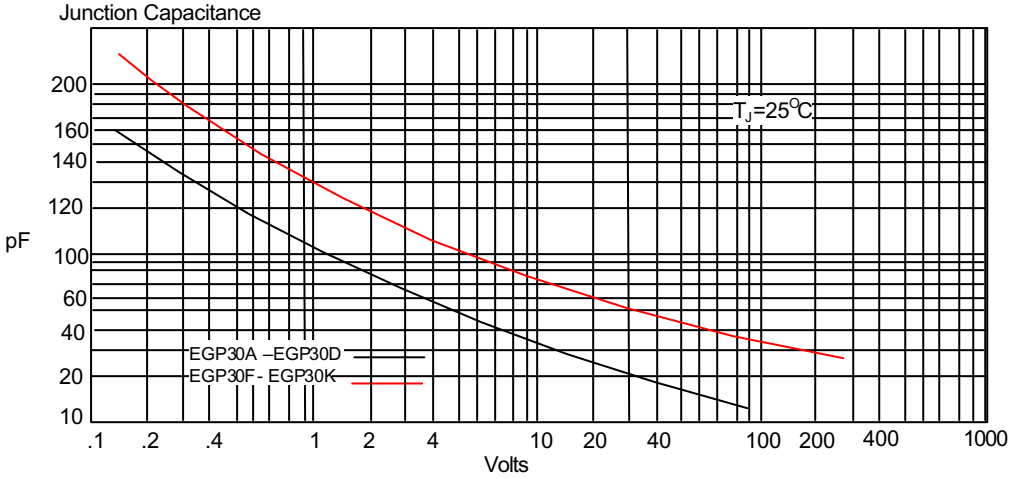
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



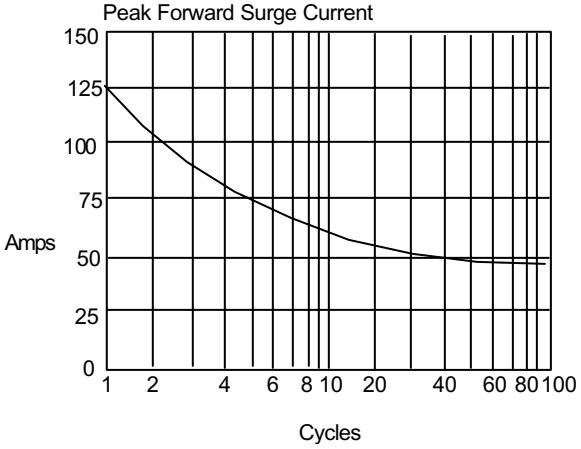
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



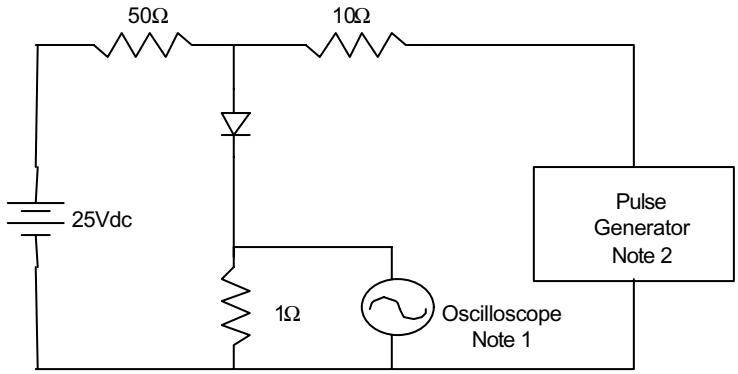
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

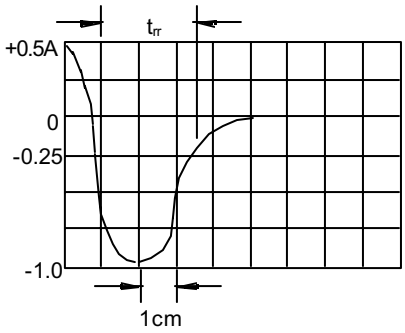
Figure 4
Peak Forward Surge Current



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

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram





Set Time Base for 20/100ns/cm

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