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EGP30A - EGP30K

3.0 Ampere Glass Passivated High Efficiency Rectifiers

Features

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



DO-201AD Glass case
 COLOR BAND DENOTES CATHODE

Absolute Maximum Ratings* T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
I _O	Average Rectified Current .375 " lead length @ T _L = 55°C	3.0	A
i _{f(surge)}	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	125	A
P _D	Total Device Dissipation Derate above 25°C	6.25 50	W mW/°C
R _{θJA}	Thermal Resistance, Junction to Ambient	20	°C/W
R _{θJL}	Thermal Resistance, Junction to Lead	8.5	°C/W
T _J , T _{STG}	Junction and Storage Temperature Range	-65 ~ 150	°C

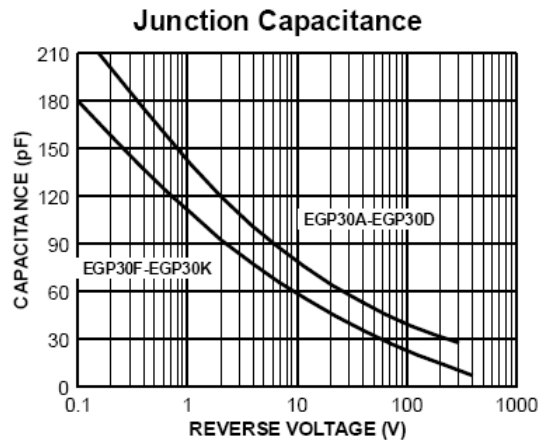
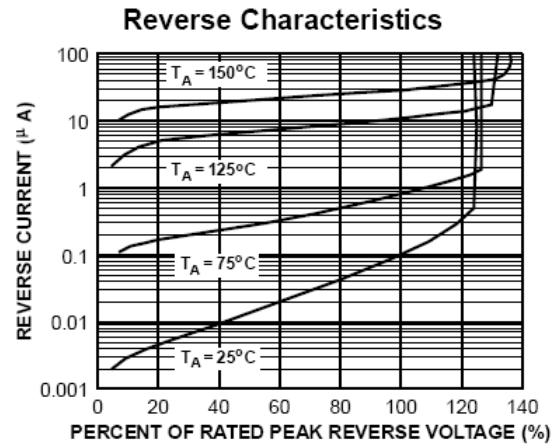
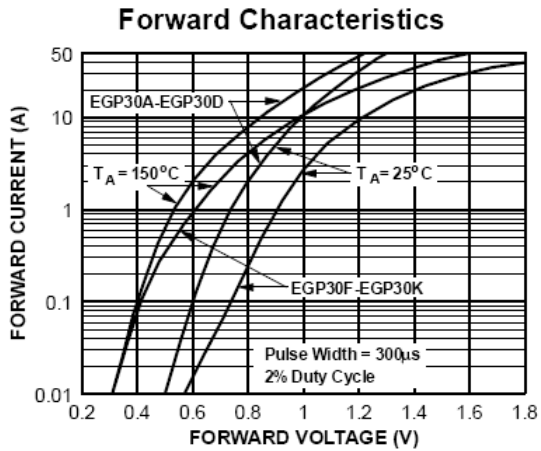
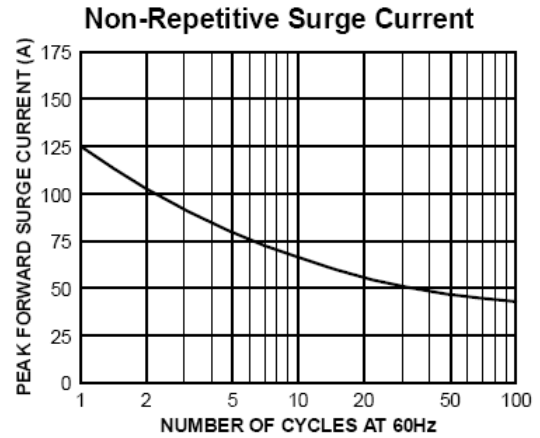
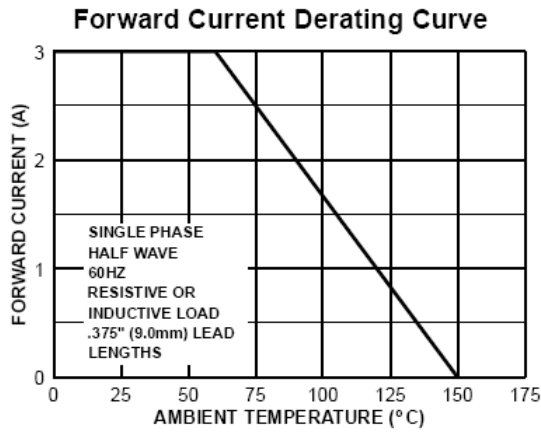
* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics* T_a = 25°C unless otherwise noted

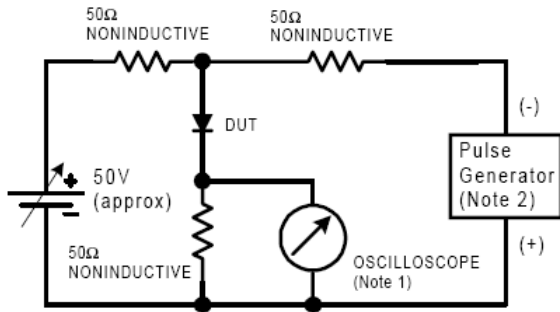
Parameter	Device								Units
	30A	30B	30C	30D	30F	30G	30J	30K	
Peak Repetitive Reverse Voltage	50	100	150	200	300	400	600	800	V
Maximum RMS Voltage	35	70	105	140	210	280	420	560	V
DC Reverse Voltage (Rated V _R)	50	100	150	200	300	400	600	800	V
Maximum Reverse Current @ rated V _R T _A = 25°C T _A = 125°C	5.0 100								μA μA
Maximum Reverse Recovery Time I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A	50						75		nS
Maximum Forward Voltage @ 3.0 A	0.95				1.25		1.7		V
Typical Junction Capacitance V _R = 4.0 V, f = 1.0 MHz	95				75				pF

* Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 2%

Typical Performance Characteristics

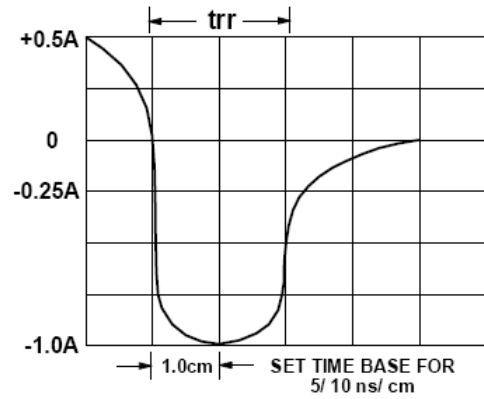


Reverse Recovery Time Characteristic and Test Circuit Diagram



NOTES:

1. Rise time = 7.0 ns max; Input impedance = 1.0 megaohm 22 pf.
2. Rise time = 10 ns max; Source impedance = 50 ohms.





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