

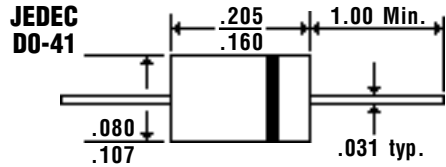
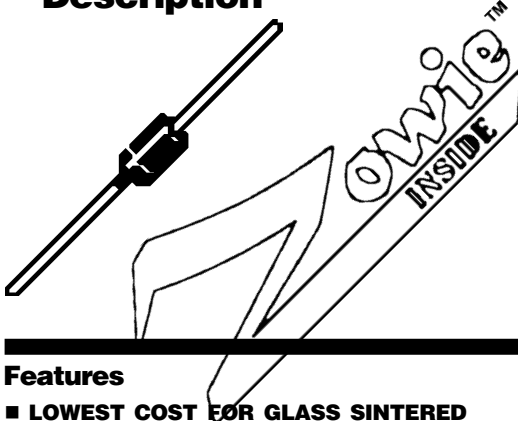


1.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

Description

Mechanical Dimensions

EGPZ10A . . . 10K Series



Features

- **LOWEST COST FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION**
- **LOWEST V_f FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION**
- **TYPICAL $I_r < 100$ nAmps**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

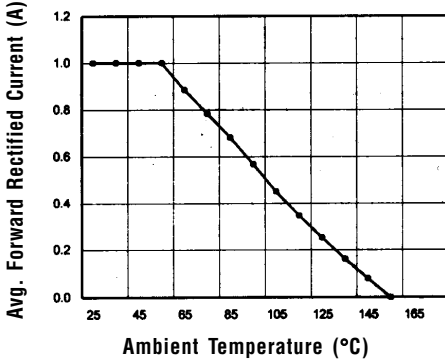
Electrical Characteristics @ 25°C.	EGPZ10A . . . 10K Series						Units
Maximum Ratings	10A	10B	10D	10G	10J	10K	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$	.....			1.0	.....		Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3mS, 1/2 Sine Wave Superimposed on Rated Load	.....			30	.....		Amps
Forward Voltage @ 1.0A... V_f	< 1.0 >		1.3		< 1.7 >		Volts
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage	.....			5.0	.....		μAmps
	.....			100	.....		μAmps
Typical Junction Capacitance... C_j (Note 1)	.....			15	.....		pF
Maximum Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			55	.....		$^\circ\text{C/W}$
Maximum Reverse Recovery Time... t_{RR} (Note 3)	< 50 >		75		< >		nS
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 150						$^\circ\text{C}$



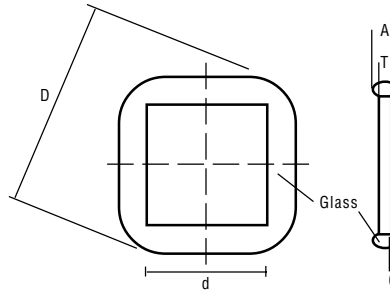
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EGPZ10A . . . 10K Series

Forward Current Derating Curve

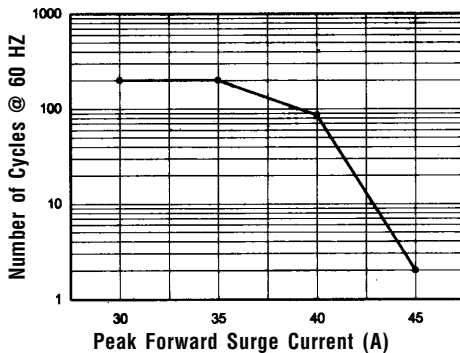


Die Dimension (mils)

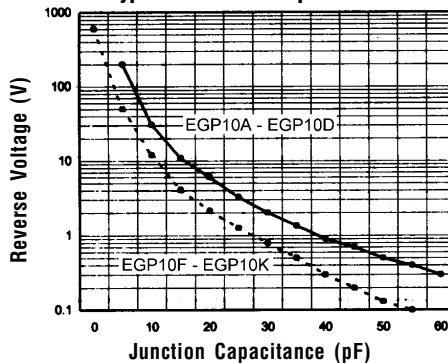


D	d	G	T	A
68	43	2±0.5	11	15±1

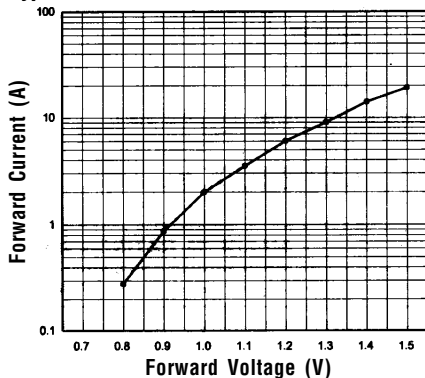
Non-Repetitive Peak Forward Surge Current



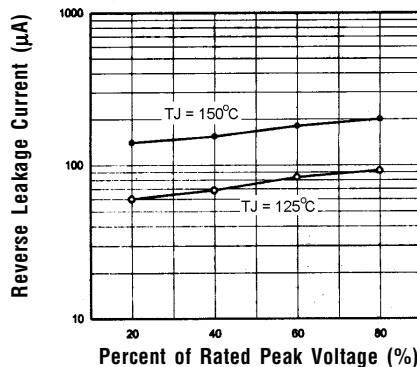
Typical Junction Capacitance



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.