

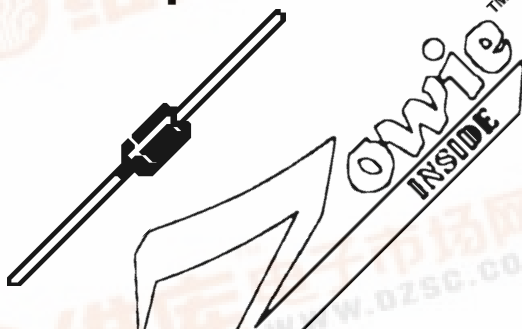


Preliminary Data Sheet

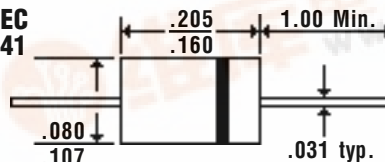
Description

1.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

Mechanical Dimensions



JEDEC
DO-41



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

EGPZ10A ... 10K Series

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°C				1.0			Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ 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	T _A = 25°C			5.0			μAmps
	T _A = 125°C			100			μAmps
Typical Junction Capacitance...C _J (Note 1)				15			pF
Maximum Thermal Resistance...R _{θJA} (Note 2)				55			°C/W
Maximum Reverse Recovery Time...t _{RR} (Note 3)	< 50 >				< 75 >		nS
Operating & Storage Temperature Range...T _J , T _{STRG}	-65 to 150						°C

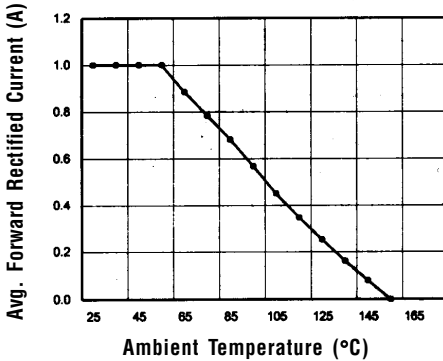


Preliminary Data Sheet

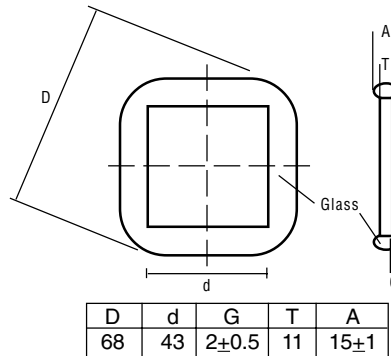
1.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

EGPZ10A . . . 10K Series

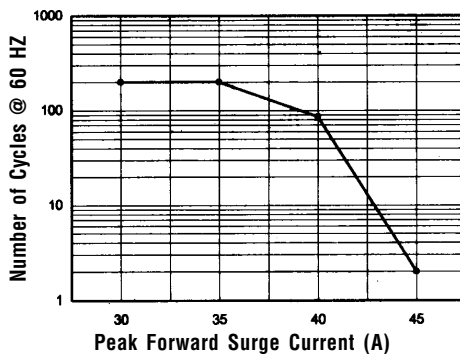
Forward Current Derating Curve



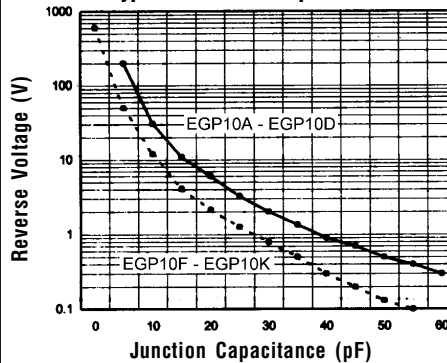
Die Dimension (mils)



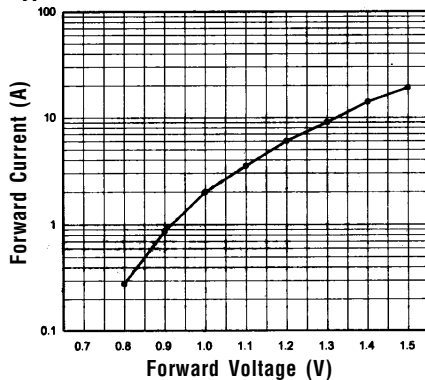
Non-Repetitive Peak Forward Surge Current



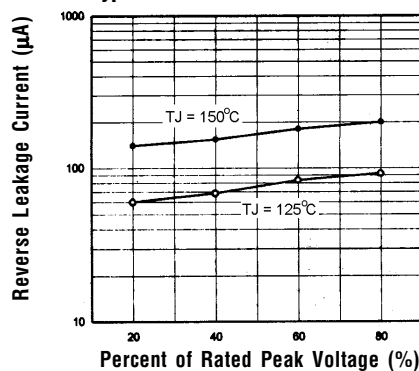
Typical Junction Capacitance



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