

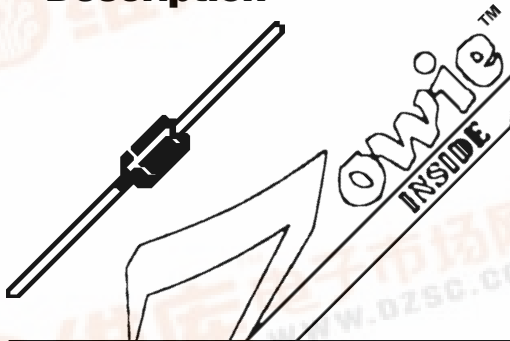


Preliminary Data Sheet

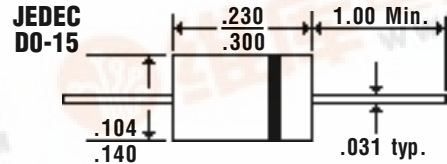
Description

2.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

EGPZ20A . . . 20M Series



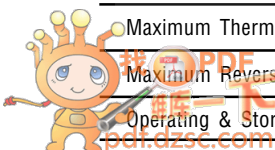
Mechanical Dimensions



Features

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

Electrical Characteristics @ 25°C.		EGPZ20A . . . 20M Series							Units
Maximum Ratings		20A	20B	20D	20G	20J	20K	20M	
Peak Repetitive Reverse Voltage...V _{RRM}		50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage...V _{R(rms)}		35	70	140	280	420	560	700	Volts
DC Blocking Voltage...V _{DC}		50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current...I _{F(av)} Current 3/8" Lead Length @ T _A = 55°C						2.0			Amps
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load						80			Amps
Forward Voltage @ Rated Forward Current and 25°C...V _F		< 1.0 >			1.3	< 1.7 >			Volts
Full Load Reverse Current...I _R (av) Full Cycle Average @ T _A = 55°C						100			μAmps
DC Reverse Current...I _{R(max)} @ Rated DC Blocking Voltage						5.0			μAmps
						200			μAmps
Typical Junction Capacitance...C _j (Note 1)						35			pF
Maximum Thermal Resistance...R _{θJA} (Note 2)						22			°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

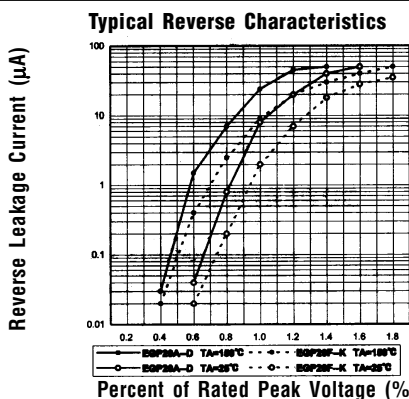
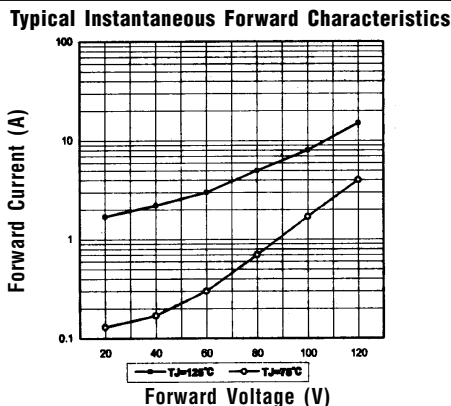
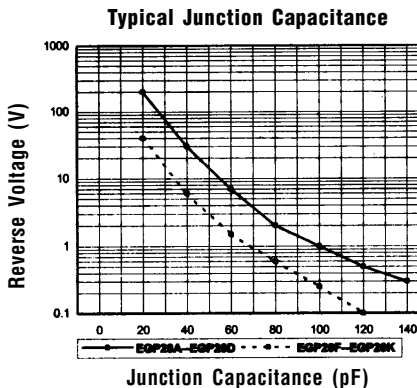
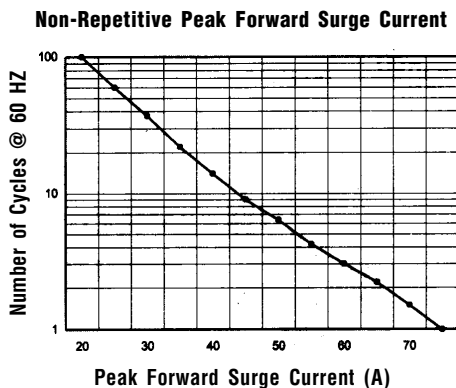
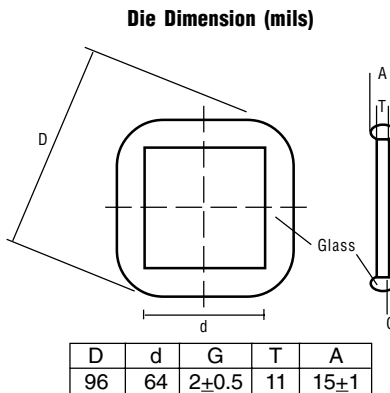
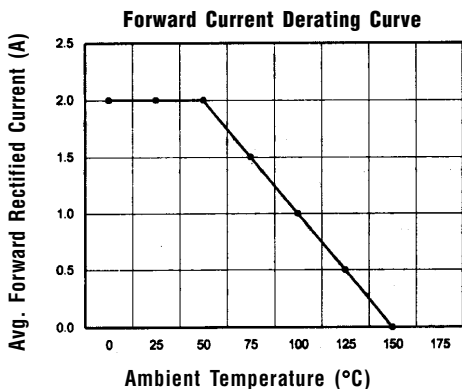




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2.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

EGPZ20A . . . 20M Series



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: $I_{FS} = 1.0A$, $t_{rr} = 1.0\mu s$, $I_{RR} = 0.25A$.