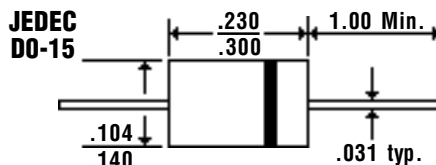
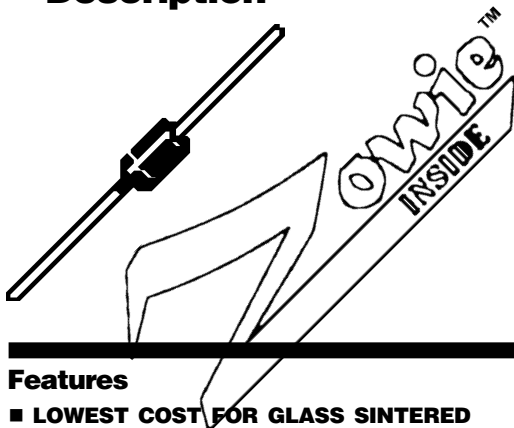


## Description

## 2.0 Amp Glass Passivated Sintered Fast Efficient Rectifiers

## Mechanical Dimensions



## Features

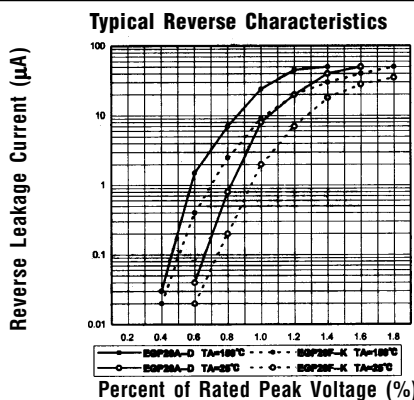
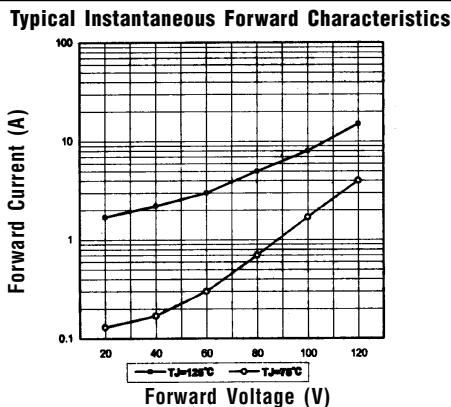
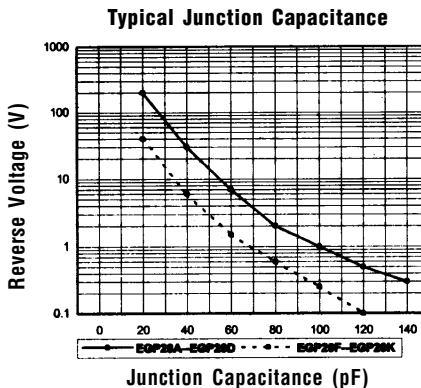
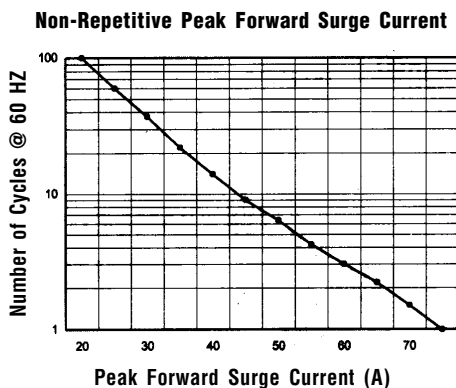
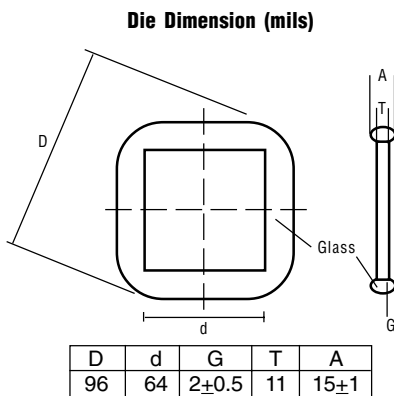
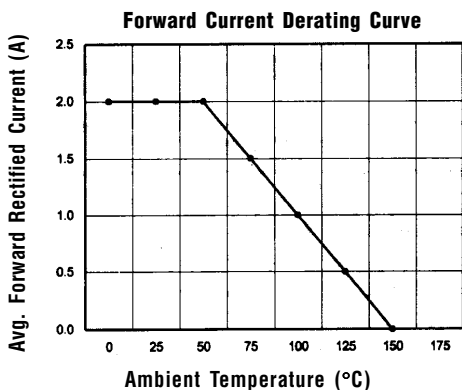
- **LOWEST COST FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION**
- **LOWEST  $V_f$  FOR GLASS SINTERED FAST EFFICIENT CONSTRUCTION**
- **TYPICAL  $I_n < 100$  nAmps**
- **2.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

| Electrical Characteristics @ 25°C.                                                                             | EGPZ20A . . . 20M Series |            |            |            |            |            |            | Units |
|----------------------------------------------------------------------------------------------------------------|--------------------------|------------|------------|------------|------------|------------|------------|-------|
| <b>Maximum Ratings</b>                                                                                         | <b>20A</b>               | <b>20B</b> | <b>20D</b> | <b>20G</b> | <b>20J</b> | <b>20K</b> | <b>20M</b> |       |
| 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... $I_{F(av)}$<br>Current 3/8" Lead Length @ $T_A = 55^\circ C$              | .....                    |            |            | 2.0        | .....      |            |            | Amps  |
| Non-Repetitive Peak Forward Surge Current... $I_{FSM}$<br>8.3ms, ½ Sine Wave Superimposed on Rated Load        | .....                    |            |            | 80         | .....      |            |            | Amps  |
| Forward Voltage @ Rated Forward Current<br>and 25°C... $V_F$                                                   | < .....                  | 1.0        | ..... >    | 1.3        | < .....    | 1.7        | ..... >    | Volts |
| Full Load Reverse Current... $I_{R(av)}$<br>Full Cycle Average @ $T_A = 55^\circ C$                            | .....                    |            |            | 100        | .....      |            |            | µAmps |
| DC Reverse Current... $I_{R(max)}$<br>@ Rated DC Blocking Voltage<br>$T_A = 25^\circ C$<br>$T_A = 150^\circ C$ | .....                    |            |            | 5.0        | .....      |            |            | µAmps |
|                                                                                                                | .....                    |            |            | 200        | .....      |            |            | µAmps |
| Typical Junction Capacitance... $C_J$ (Note 1)                                                                 | .....                    |            |            | 35         | .....      |            |            | pF    |
| Maximum Thermal Resistance... $R_{\theta JA}$ (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    |



# 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  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $t_{RR} = 0.25A$ .