

# EGP100D

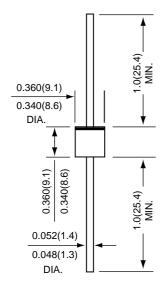
## SINTERED GLASS PASSIVATED JUNCTION HIGH EFFICIENT RECTIFIER

Reverse Voltage - 200 Volts

Forward Current - 10 Amperes



P-600



\*Dimensions in inches and (millimeters)





#### **FEATURES**

- \* GPRC (Glass Passivated Rectifier Chip) inside
- \* Glass passivated cavity-free junction
- \* Superfast recovery time for high efficiency
- \* Low forward voltage, high current capability
- \* Low leakage current
- \* High surge current capability
- \* High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- Plastic package has Underwriters Laboratory Flammability
   Classification 94V-0

#### **MECHANICAL DATA**

Case: JEDEC DO-201AD molded plastic over glass body

Terminals: Tin Plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature	SYMBOLS	EGP100D	UNITS
unless otherwise specified.			
Maximum repetitive peak reverse voltage	VRRM	200	Volts
Maximum RMS voltage	VRMS	140	Volts
Maximum DC blocking voltage	VDC	200	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (SEE FIG.1)	l (AV)	10	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250	Amps
Maximum instantaneous forward voltage at 10 A	VF	0.95	Volts
Maximum DC reverse current  at rated DC blocking voltage  @TA=25°C @TA=85°C @TA=150°C	lR	3.0 10 50	uA
Maximum reverse recovery time (NOTE)	trr	60	nS
Typical junction capacitance (NOTE 2)	C1	180	pF
Typical thermal resistance (NOTE 3)	R JA R JL	25 10	°C/W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175	°C

NOTES : (1) Reverse recovery test condition : If 0.5A, IR=1.0A, Irr=0.25A  $\,$ 

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead lengths, P.C.B. mounted.



## RATINGS AND CHARACTERISTIC CURVES OF EGP100D

