

EGP15A thru EGP15G

1.FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * High temperature metallurgically bonded construction
- * Cavity-free glass passivated junction
- * Capable of meeting environmental standards of MIL-S-19500
- * For use in high frequency rectifier circuits
- * Fast switching for high efficiency
- * High temperature soldering guaranteed: 260°C/10 seconds
- * 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

2.Mechanical Data

Case: JEDEC DO-15, molded plastic over glass body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.015 oz., 0.41 g

Handling precaution: None

3.Electrical Characteristic

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	EGP 15A	EGP 15B	EGP 15C	EGP 15D	EGP 15F	EGP 15G	EGP 15J	EGP 15K	EGP 15M	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA = 55°C	IF(AV)	1.5									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50						45			A
Typical thermal resistance (Note 2)	RθJA	40									°C/W
Operating junction and storage temperature range	TJ, TSTG	-50to +150									°C

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	EGP 15A	EGP 15B	EGP 15C	EGP 15D	EGP 15F	EGP 15G	EGP 15J	EGP 15K	EGP 15M	Unit
Maximum Instantaneous Forward Voltage (IF = 1.5 Amps, TJ = 25°C)	VF	1.00				1.25		1.70			V
Maximum full load reverse current, full cycle average,0.375"(9.5mm) lead lengths (Rated dc Voltage, TJ = 25°C) (Rated dc Voltage, TJ = 125°C)	IR	5.0 200									µA
Typical reverse recovery time (Note 1)	trr	50						75			ns
Typical junction capacitance at 4.0V, 1MHz	CJ	35									PF

NOTES:

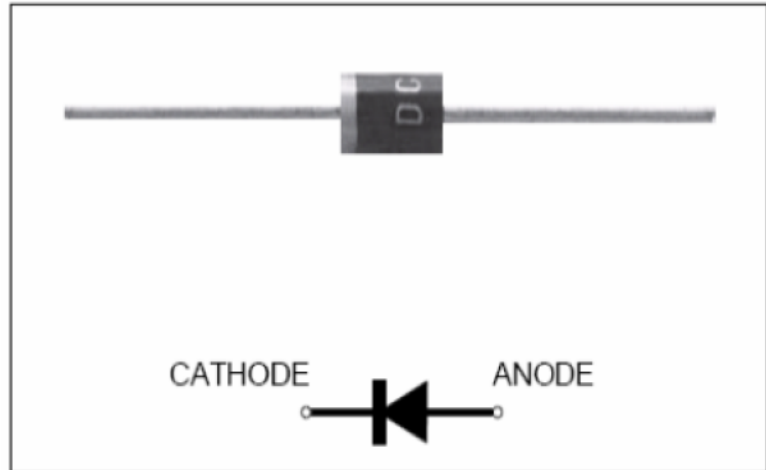
1. $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$

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

**Glass Passivated Junction
Ultra Fast Rectifiers**

Reverse Voltage 50 to 1000V

Forward Current 1.5A



We declare that the material of product
compliance with RoHS requirements.

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

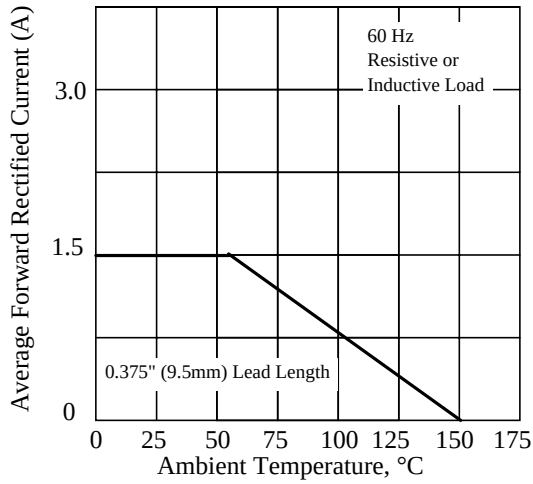


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

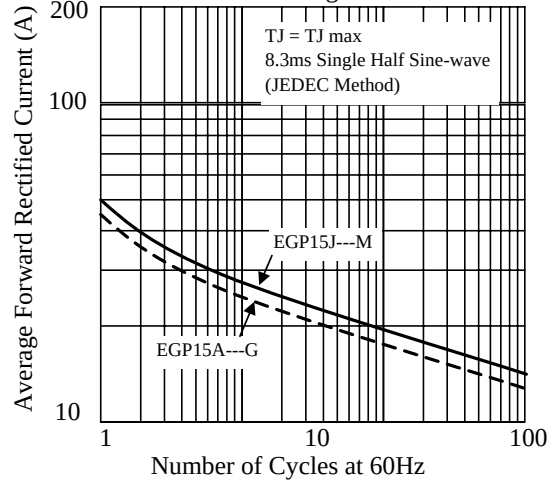


Fig. 3 - Typical Instantaneous Forward Characteristics

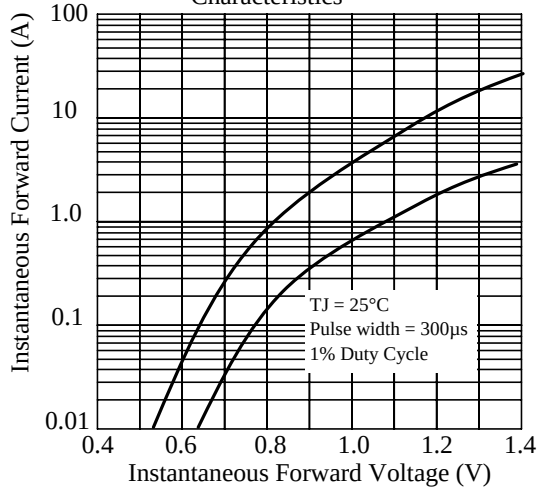


Fig. 4 - Typical Reverse Characteristics

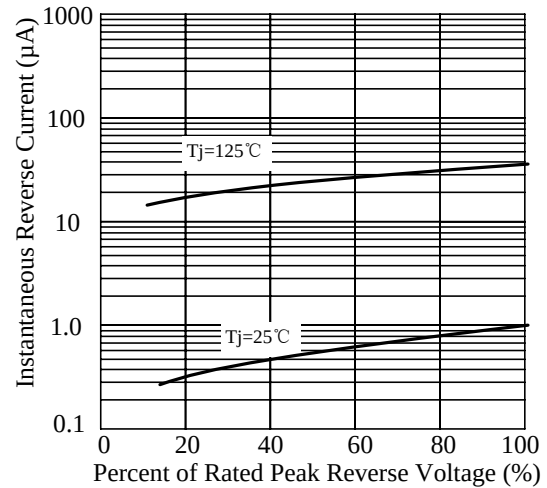


Fig. 5 - typical transient thermal impedance

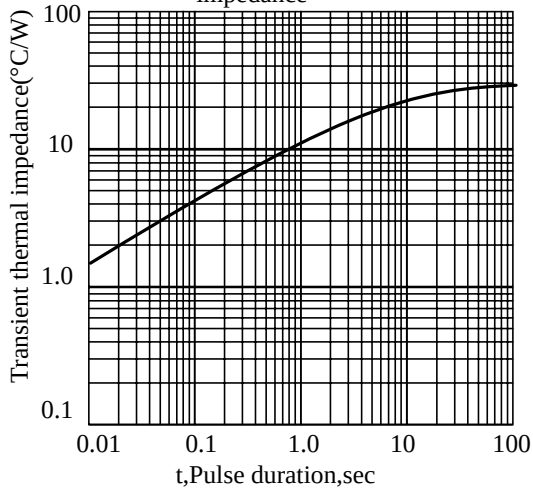
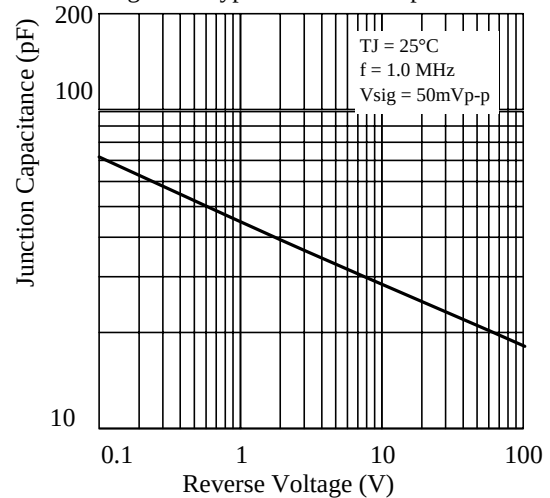


Fig. 6 - Typical Junction Capacitance



5.Package Dimensions in inches and (millimeters)

