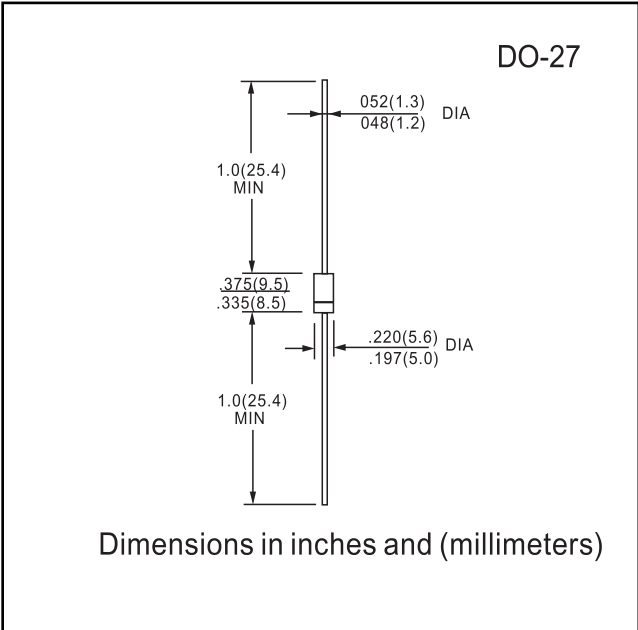


**FEATURES**

- \* 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 :** Plated axial leads , solderable per MIL-STD-750, Method 2026  
**Polarity :** Color band denotes cathode end  
**Mounting Position :** Any  
**Weight :** 0.015 ounces , 0.4 gram



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	EGP 30A	EGP 30B	EGP 30C	EGP 30D	EGP 30F	EGP 30G	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	150	200	300	400	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	210	280	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	150	200	300	400	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T <sub>A</sub> =55°C	I <sub>(AV)</sub>	3.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	125.0						Amps
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.95				1.25		Volts
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>			5.0				mA
				100.0				
Typical reverse recovery time (NOTE 1)	t <sub>rr</sub>	50.0						ns
Typical junction capacitance (NOTE 2)	C <sub>J</sub>	95.0				75.0		pF
Typical thermal resistance (NOTE 3)	R <sub>QJA</sub> R <sub>QJL</sub>					20.0		°C/W
						8.0		
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150						°C

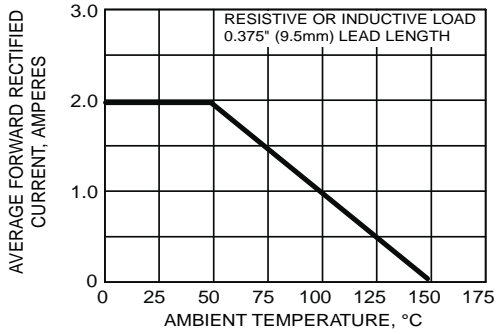
**NOTES:**

- (1) Reverse recovery test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=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 length, P.C.B. mounted

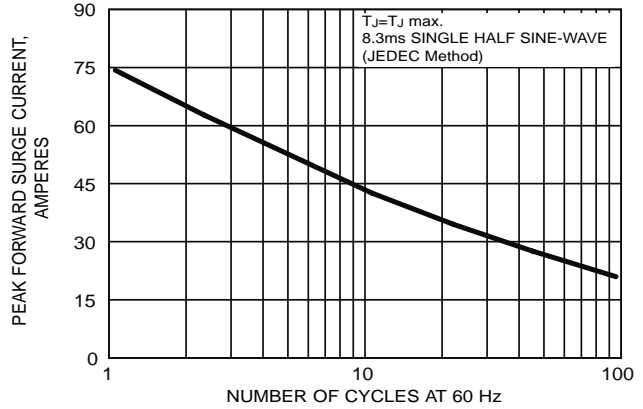


**RATINGS AND CHARACTERISTIC CURVES EGP30A THRU EGP30G**

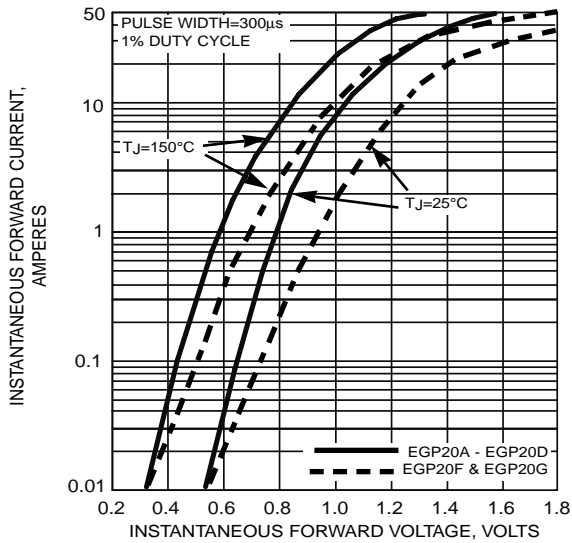
**FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE**



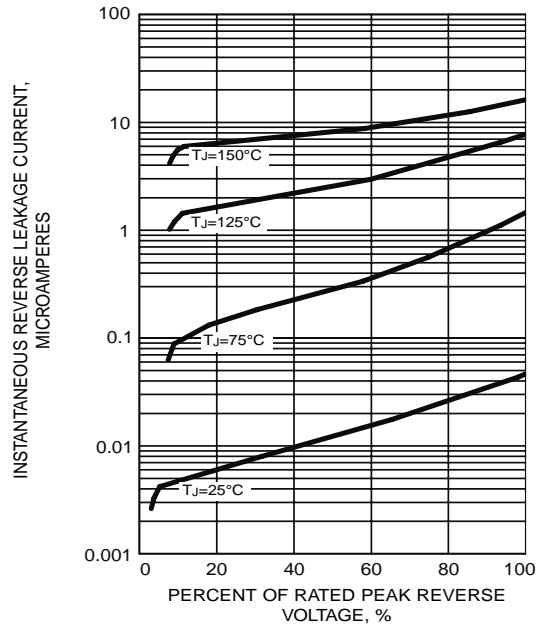
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



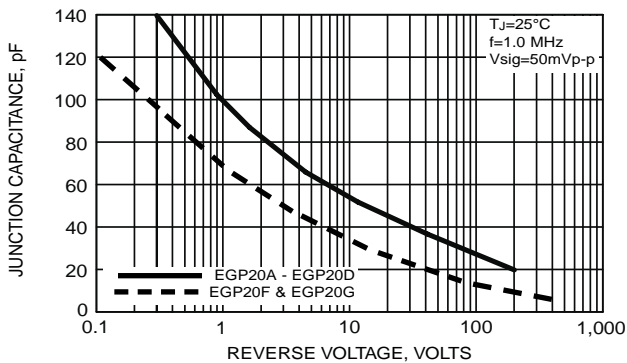
**FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**



**FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE**

