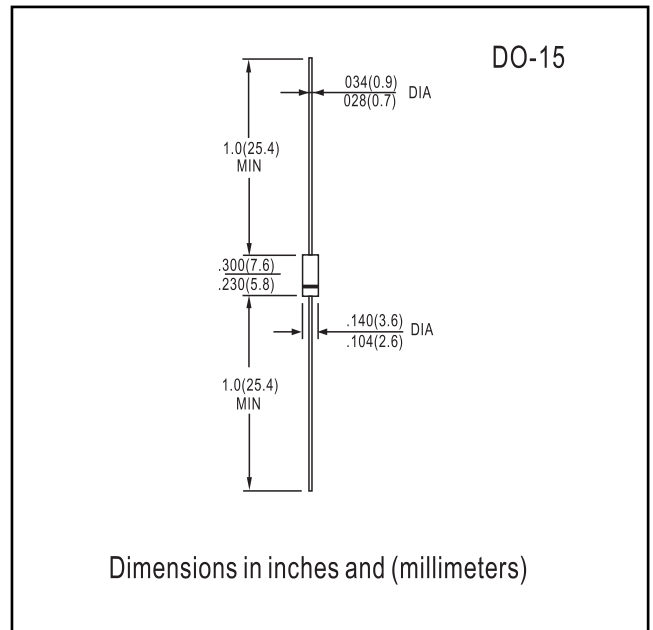


FEATURES

- * 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-204AC 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 20A	EGP 20B	EGP 20C	EGP 20D	EGP 20F	EGP 20G	UNITS	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	Volts	
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	Volts	
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	Volts	
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I _(AV)	2.0						Amps	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	75.0						Amps	
Maximum instantaneous forward voltage at 2.0A	V _F	0.95				1.25		Volts	
Maximum DC reverse current at rated DC blocking voltage	I _R	T _A =25°C		5.0		T _A =125°C		100.0	μA
Maximum reverse recovery time (NOTE 1)	t _{rr}	50.0						ns	
Typical junction capacitance (NOTE 2)	C _J	70.0				45.0		pF	
Typical thermal resistance (NOTE 3)	R _{θJA} R _{θJL}			40.0				°C/W	
				15.0					
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +150						°C	

NOTES:

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=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 EGP20A THRU EGP20G

FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE

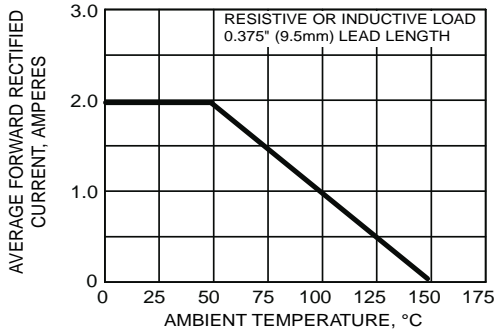


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

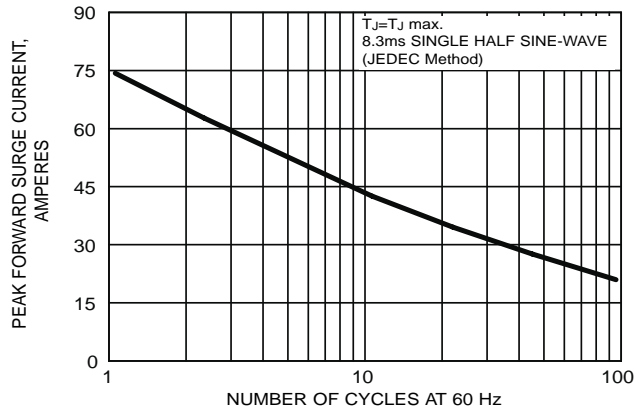


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

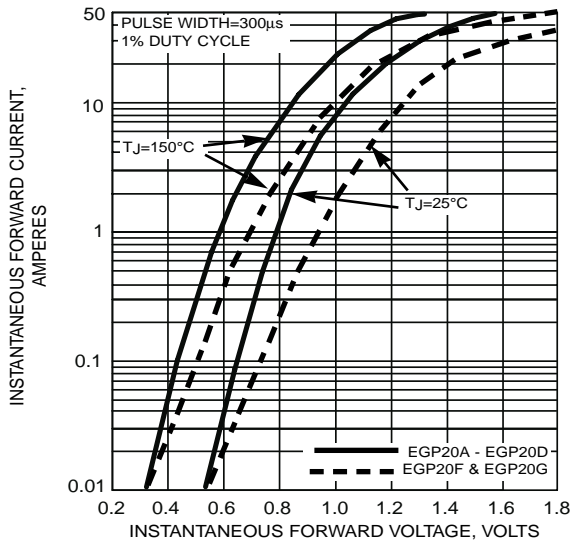


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

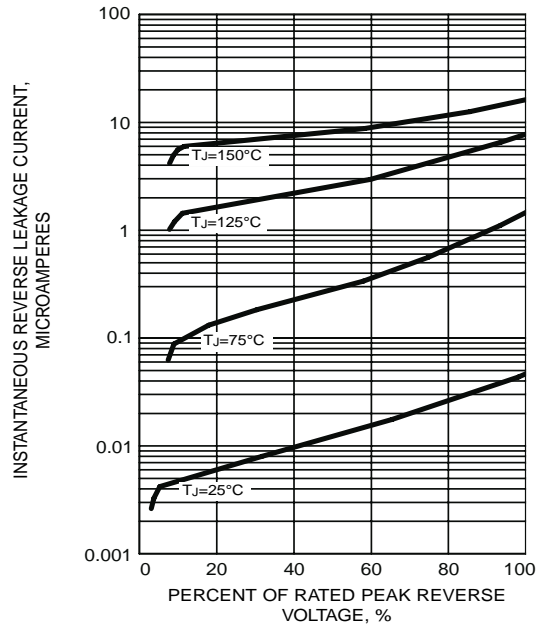


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

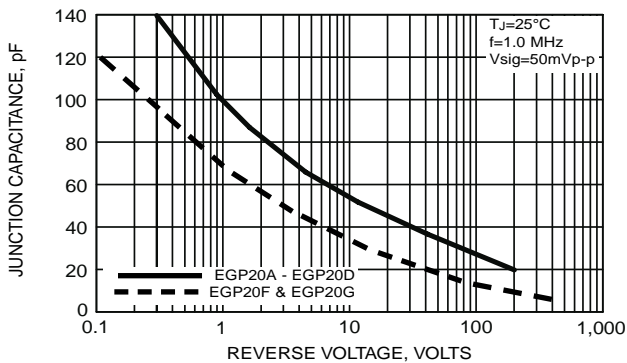


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

