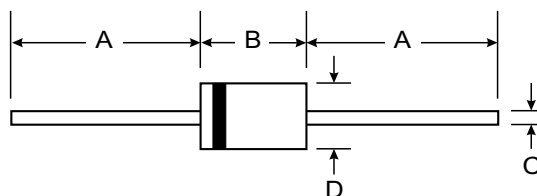


Features

- 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



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

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 ounces , 0.4 gram

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	EGP20								UNITS
		A	B	D	F	G	J	K	M	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (SEE FIG.1)	I (AV)	2.0								Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	65					60			Amps
Maximum instantaneous forward voltage at 2.0 A	V _F	1.0			1.25		1.7			Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	5			30			5		uA
		TA=25°C			100			100		
		TA=125°C			-			-		
		TA=150°C			-			-		
Maximum reverse recovery time (NOTE 1)	t _{rr}	50					75			nS
Typical junction capacitance (NOTE 2)	C _J	45								pF
Typical thermal resistance (NOTE 3)	R _{θJA} R _{θJL}	40					15			°C / W
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +175					-55 to +150			°C

NOTES : (1) Reverse recovery test condition : 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 at 0.375" (9.5mm) lead lengths, P.C.B. mounted.



FIG.1 - FORWARD CURRENT DERATING CURVE

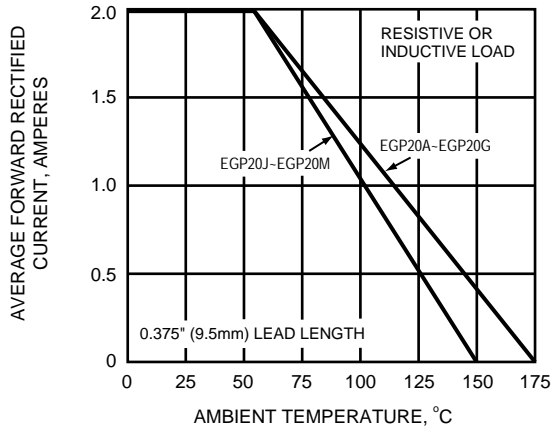


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

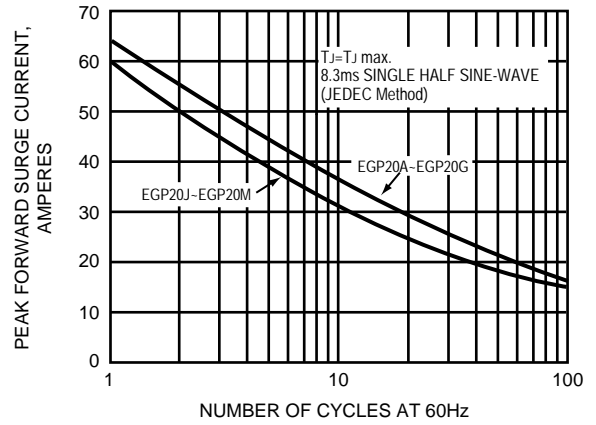


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

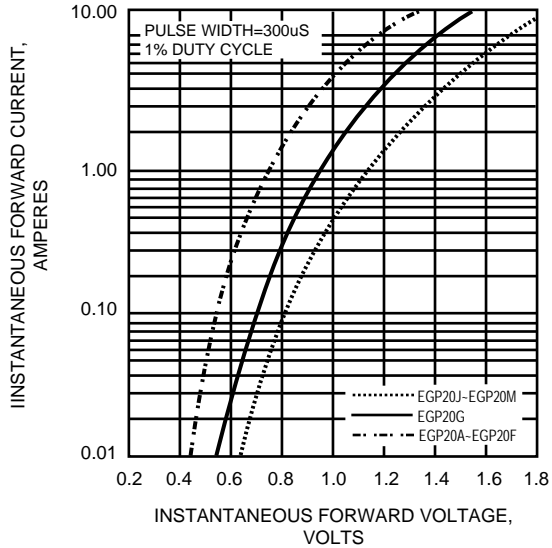


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

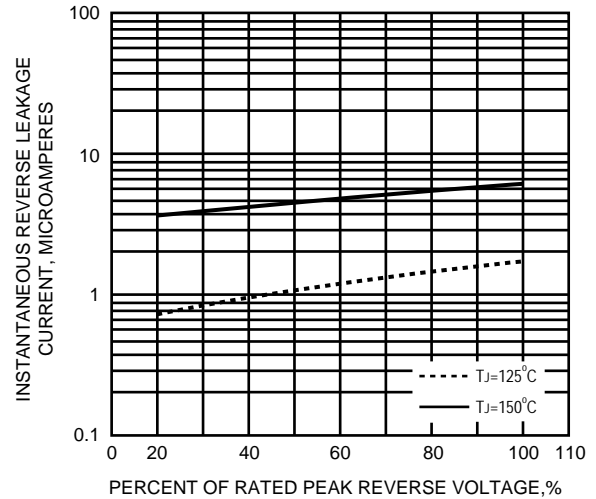


FIG.5 - TYPICAL JUNCTION CAPACITANCE

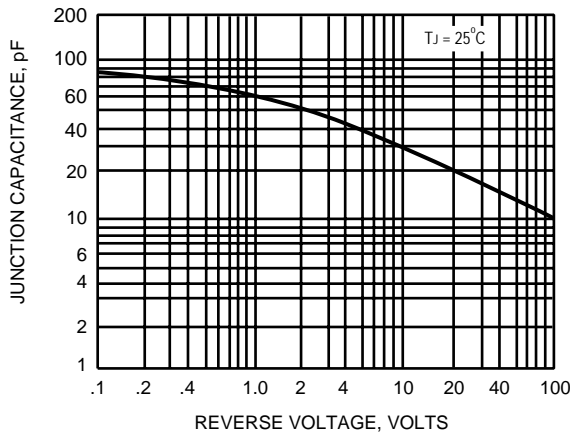


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

