

**ELECTRICAL CHARACTERISTICS** ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	EGP30A	EGP30B	EGP30C	EGP30D	EGP30F	EGP30G	UNIT
Maximum instantaneous forward voltage	3.0 A		V _F	0.95				1.25		V
Maximum DC reverse current at rated DC blocking voltage		T _A = 25 °C	I _R	5.0						μA
		T _A = 125 °C		100						
Maximum reverse recovery time	I _F = 0.5 A, I _R = 1.0 A, I _{rr} = 0.25 A		t _{rr}	50						ns
Typical junction capacitance	4.0 V, 1 MHz		C _J	85				75		pF

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	EGP30A	EGP30B	EGP30C	EGP30D	EGP30F	EGP30G	UNIT
Typical thermal resistance	R _{θJA} ⁽¹⁾	20						°C/W
	R _{θJL} ⁽¹⁾	8.0						

Note

(1) Thermal resistance from junction to ambient, and from junction to lead at 0.375" (9.5 mm) lead length, PCB mounted

ORDERING INFORMATION (Example)

PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
EGP30G-E3/54	1.01	54	1400	13" diameter paper tape and reel
EGP30G-E3/73	1.01	73	1000	Ammo pack packaging

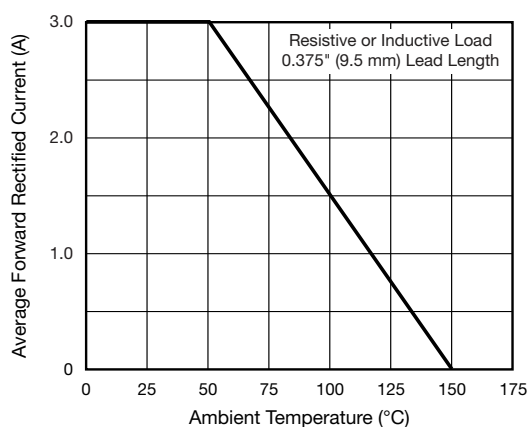
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

Fig. 1 - Maximum Forward Current Derating Curve

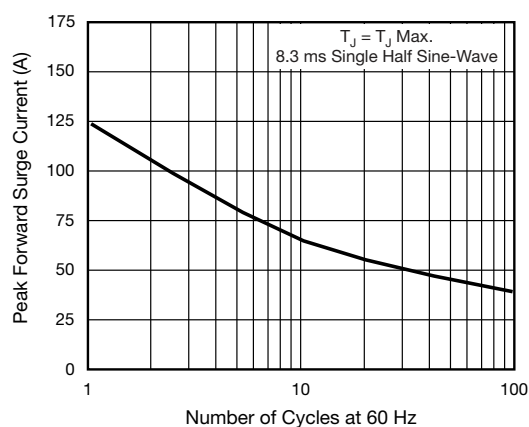


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

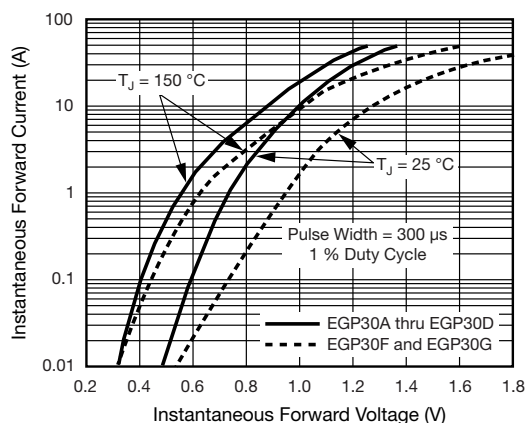


Fig. 3 - Typical Instantaneous Forward Characteristics

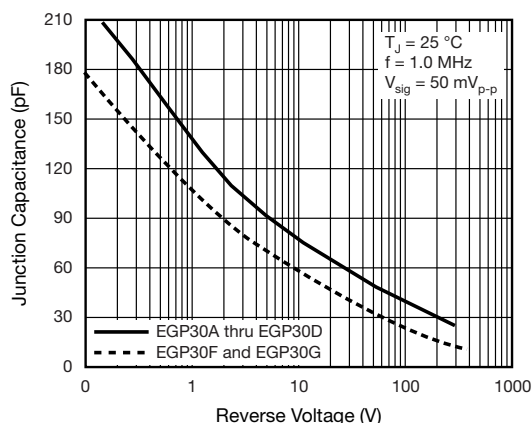


Fig. 5 - Typical Junction Capacitance

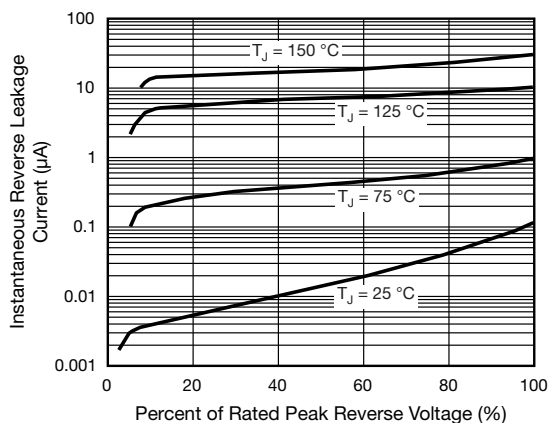


Fig. 4 - Typical Reverse Leakage Characteristics

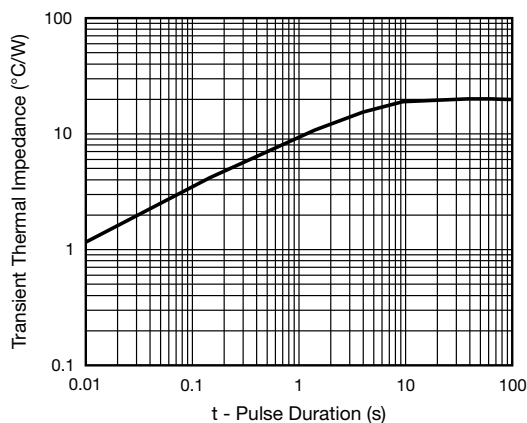
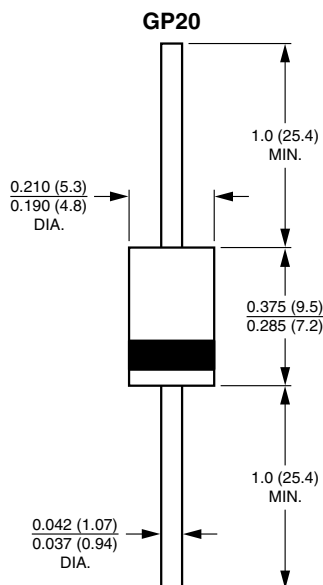


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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