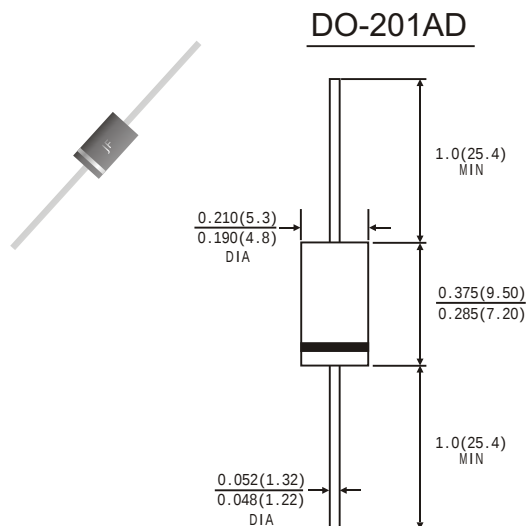


FEATURES

- GPRC(Glass Passivated Rectifier Chip) inside
- Glass passivated cavity-free junction
- Low forward voltage drop, High current capability
- High surge current capability
- Super fast recovery time
- Plastic package has Underwriters Laboratory Flammability
- Classification 94V-0

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.042ounce, 1.18 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25 °C ambient temperature unless otherwise specified ,Single phase ,half wave ,60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

		Symbols	EGP 30A	EGP 30B	EGP 30D	EGP 30F	EGP 30G	EGP 30J	EGP 30K	EGP 30M	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	210	280	420	480	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm)lead Length at Ta=55 C		l(AV)	3.0								Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		lFSM	115.0					105.0			Amps
Maximum Instantaneous Forward Voltage at 1.0 A		VF	1.0				1.25	1.7			Volts
Maximum DC Reverse Current At Rated DC Blocking Voltage	TA=25°C	IR	5.0								μA
	TA=100°C		100								
Maximum Reverse Recovery Time(Note1)		Trr	50					75			ns
Typical Junction Capacitance(Note2)		CJ	75								pF
Operating Junction and Storage Temperature Range		TJ TSTG	-65 to +125 -65 to +150								°C

Note: 1. Test conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

2. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES EGP30A THRU EGP30M

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

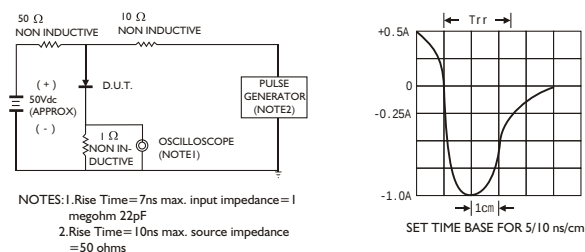


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

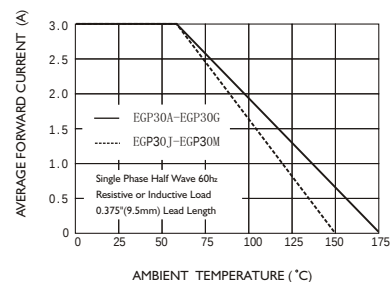


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

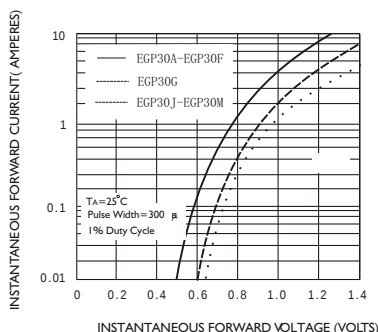


FIG.4-TYPICAL REVERSE CHARACTERISTICS

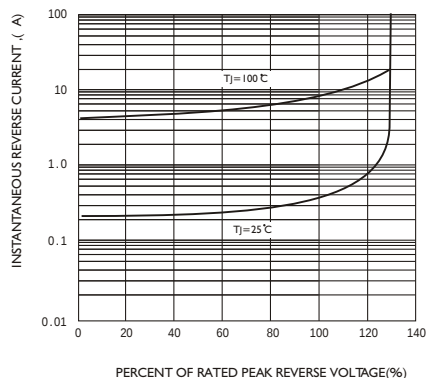


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

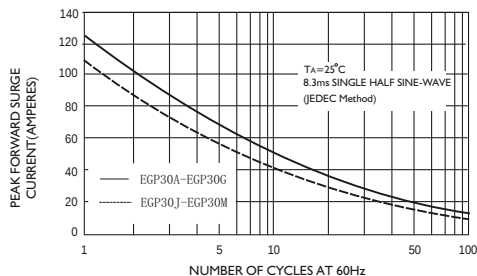


FIG.6-TYPICAL JUNCTION CAPACITANCE

