

FEATURES

- GPRC(Glass Passivated Rectifier Chip) inside
- Glass passivated cavity-free junction
- For Surface Mount Applications
- Easy to pick and place
- 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-214AA molded plastic over passivated chip

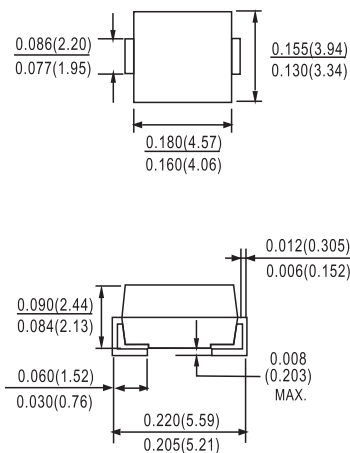
Terminals : Solder plated , solderable per MIL-STD-750,
Method 2026

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 0.003 ounces , 0.093 gram

DO-214AA(SMB)



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	EGF 20A	EGF 20B	EGF 20D	EGF 20F	EGF 20G	EGF 20J	EGF 20K	EGF 20M	Units	
Maximum Recurrent 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	480	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 at T _a =55 C °		I _(AV)	2.0								Amp	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	65.0					60.0			Amps	
Maximum Instantaneous Forward Voltage at 1.0 A		V _F	0.95				1.25	1.7			Volts	
Maximum DC Reverse Current At Rated DC Blocking Voltage	T _A =25°C	I _R	5.0								μA	
	T _A =100°C		100									
Maximum Reverse Recovery Time(Note1)		T _{rr}	50					75			ns	
Typical Junction Capacitance(Note2)		C _J	45									pF
Operating Junction and Storage Temperature Range		T _J T _{STG}	-65 to+125 -65 to+150								°C	

Note: 1. Test conditions: I_F=0.5A,I_R=1.0A,I_{RR}=0.25A.

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

RATINGS AND CHARACTERISTICS CURVES

EGF20A THRU EGF20M

FIG.1 - FORWARD CURRENT DERATING CURVE

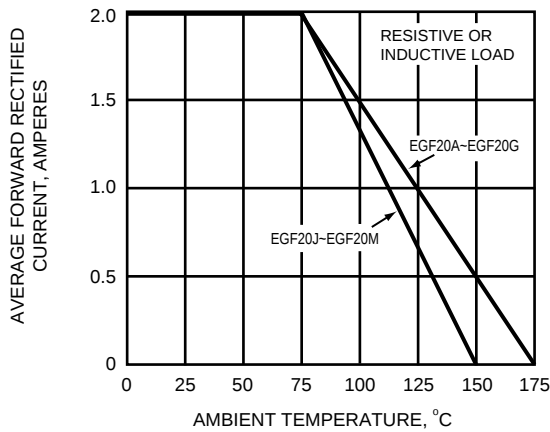


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

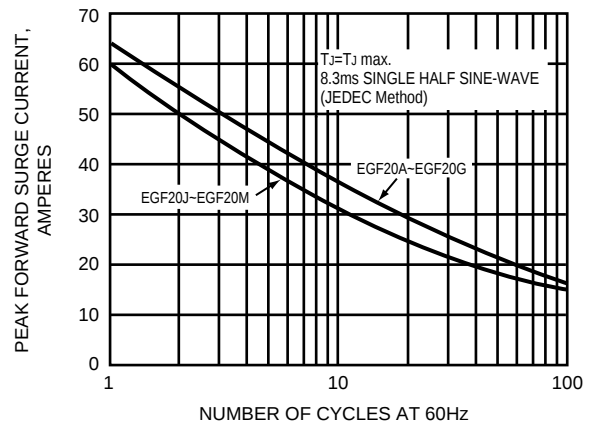


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

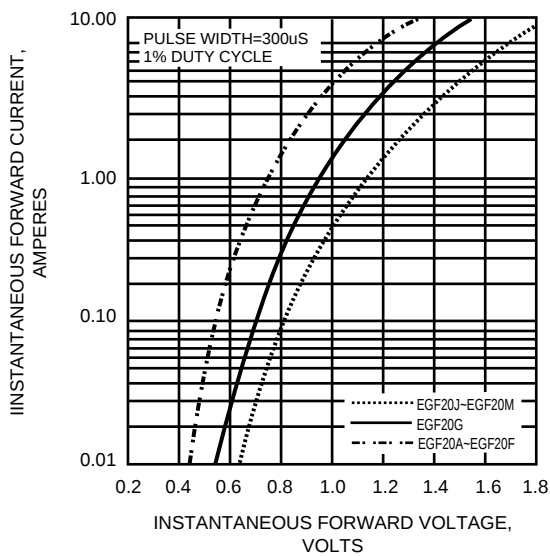


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

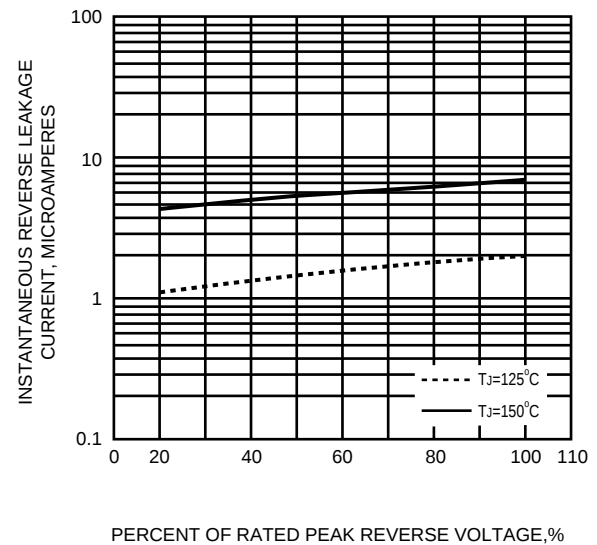


FIG.5 - TYPICAL JUNCTION CAPACITANCE

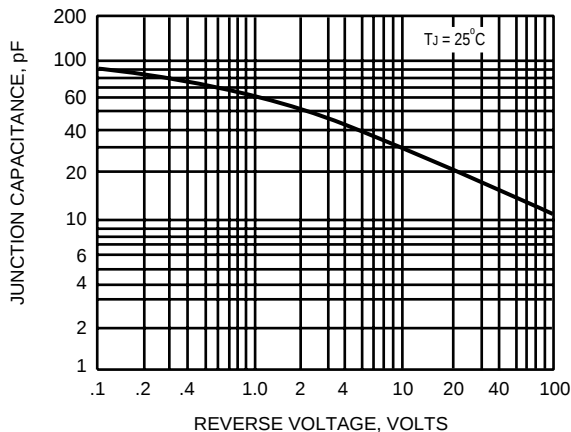


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

