

2.0A Sintered Glass Passivated Super Fast Recovery Rectifier (SGP®)

Features

- Sintered glass passivated (SGP®) rectifier chip
- Low forward voltage, high current capability
- Low leakage current, high surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance

DO-15
(DO-204AC)



Mechanical Data

Case:	JEDEC DO-204AC(DO-15) molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.015 ounces, 0.4 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	EGP20A	EGP20B	EGP20D	EGP20G	EGP20J	EGP20K	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	2.0						A	0.375" (9.5mm) lead length(Fig.1)
I_{FSM}	Peak Forward Surge Current	65				60		A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

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EGP20A - EGP20K

Symbol	Description	EGP20A	EGP20B	EGP20D	EGP20G	EGP20J	EGP20K	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	0.95			1.25	1.70	2.20	V	I _F =2.0 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5						μA	T _A =25° C
		100							T _A =125° C
T _{rr}	Typical Reverse Recovery Time	35						nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C _J	Typical Junction Capacitance	22						pF	V _R =4V, f=1MHz
R _{thJA}	Typical Thermal Resistance	40						°C / W	Note
T _J	Operating Temperature range	-55 to +175						° C	
T _{STG}	Storage Temperature Range	-55 to +175							

Note: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B mounted.

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

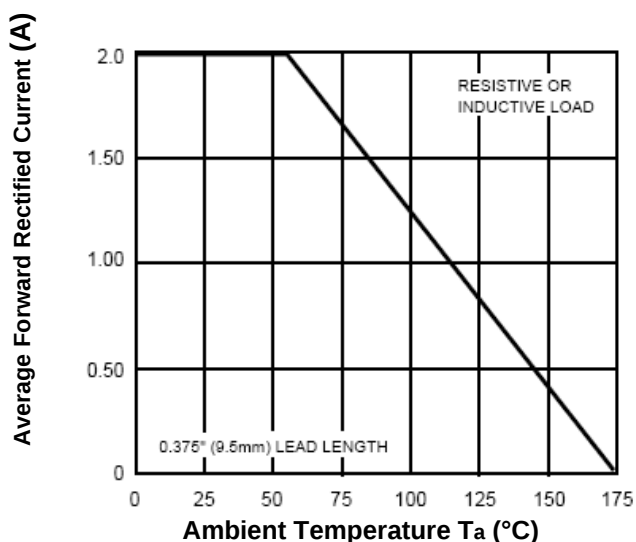
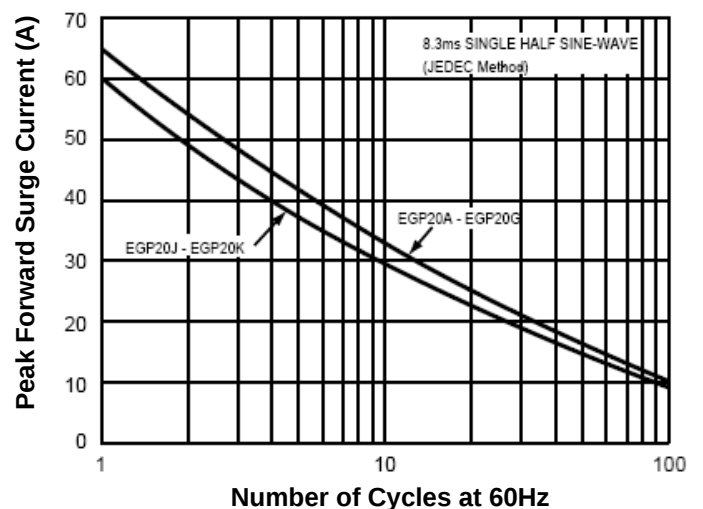


Fig.2-Max. Non-Repetitive Forward Surge Current



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EGP20A - EGP20K

Fig.3- Typical Forward Characteristics

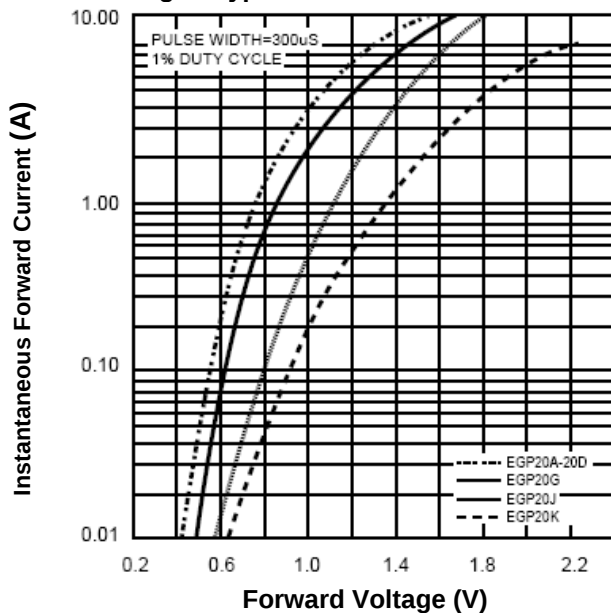


Fig.4-Typical Reverse Characteristics

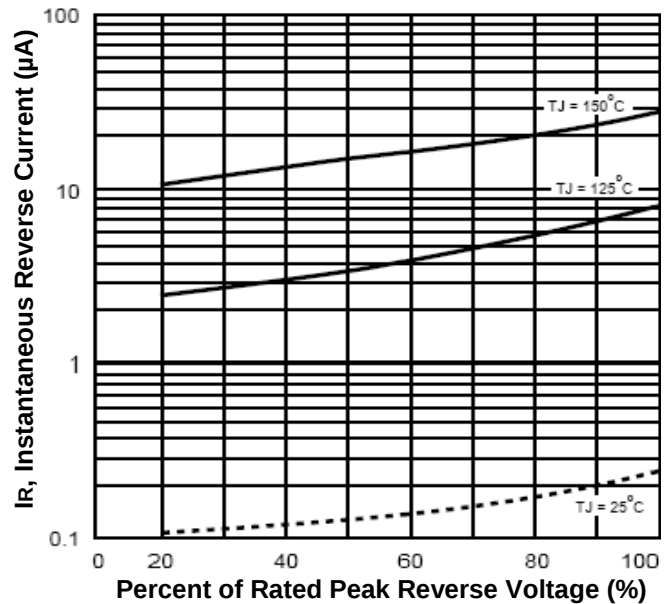
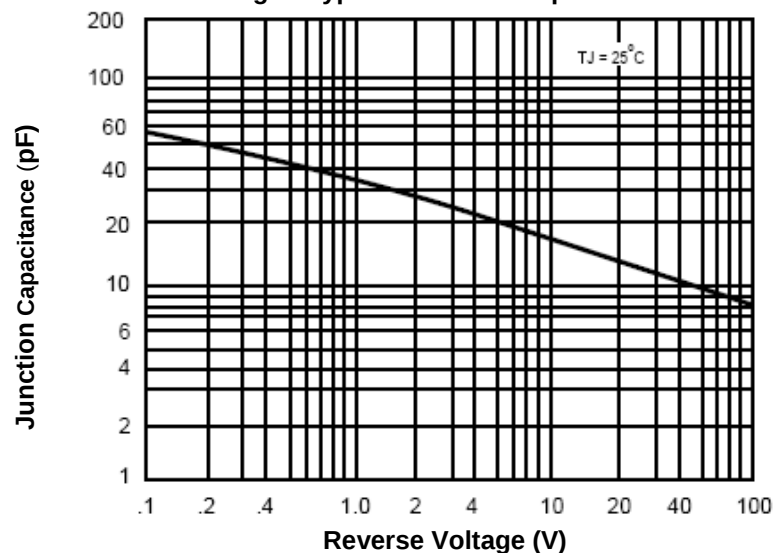


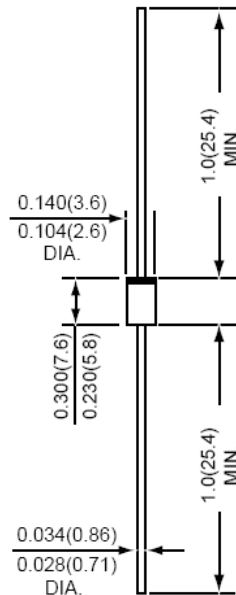
Fig.5- Typical Junction Capacitance



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EGP20A - EGP20K

Dimensions in inches (mm)



DO-15
(DO-204AC)

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