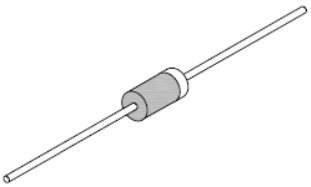
2.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

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)

RoHS Compliant

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=25ºC unless noted otherwise)*

Symbol	Description	UGP 20A	UGP 20B	UGP 20D	UGP 20G	UGP 20J	UGP 20K	UGP 20M	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	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)

2.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier

UGP20A – UGP20M

Symbol	Description	UGP 20A	UGP 20B	UGP 20D	UGP 20G	UGP 20J	UGP 20K	UGP 20M	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.00			1.25	1.70			V	I_F=2.0 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5				5			µA	T_A=25° C
		30				100				T_A=125° C
		100				-				T_A=150° C
T_{rr}	Typical Reverse Recovery Time	50				75			nS	I_F=0.5A, I_R=1A, I_{rr}=0.25A
C_J	Typical Junction Capacitance	45							pF	V_R=4V, f=1MHz
R_{thJA} R_{thJL}	Typical Thermal Resistance	40 15							°C / W	Note
T_J	Operating Temperature range	-65 to +175				-55 to +150			° C	
T_{STG}	Storage Temperature Range	-65 to +175				-55 to +150				

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

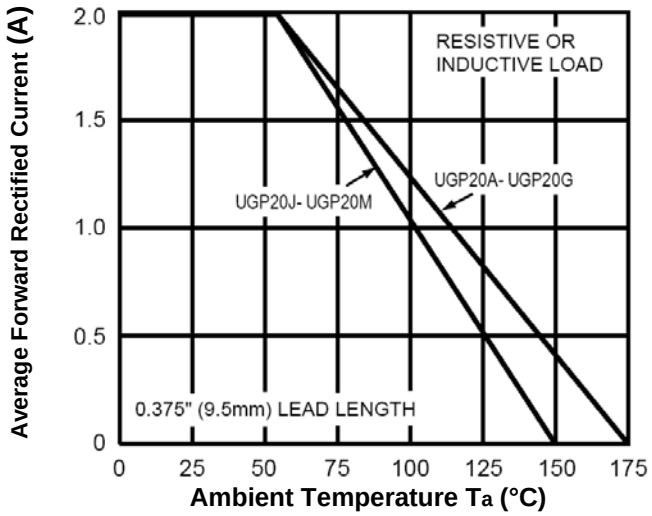


Fig.2-Max. Non-Repetitive Forward Surge Current

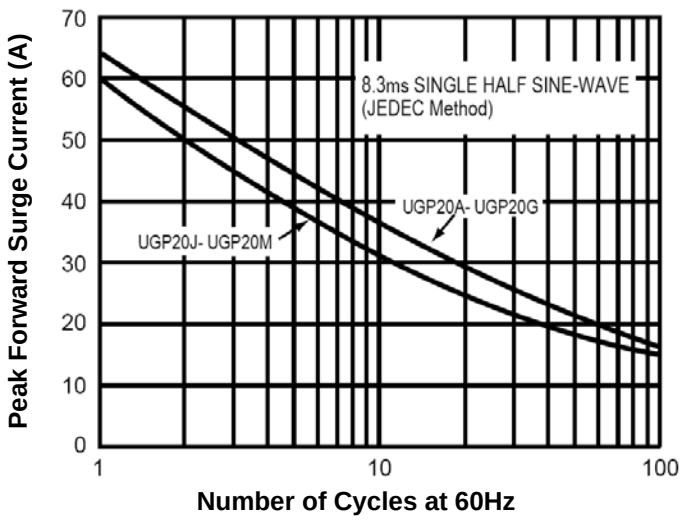


Fig.3- Typical Forward Characteristics

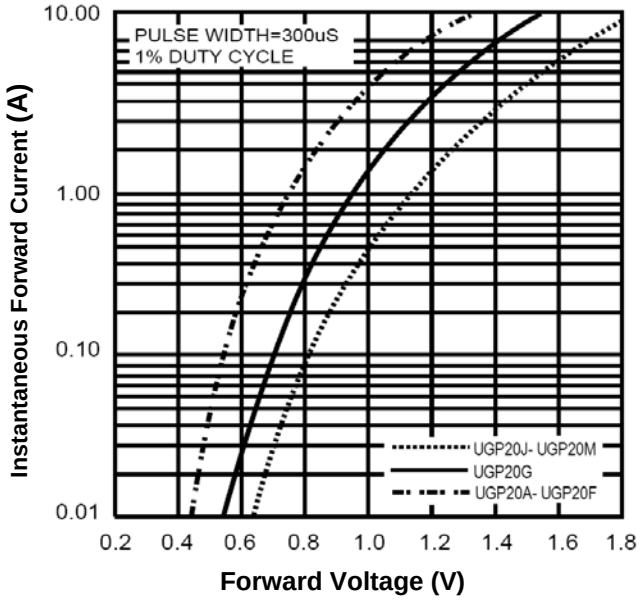


Fig.4-Typical Reverse Characteristics

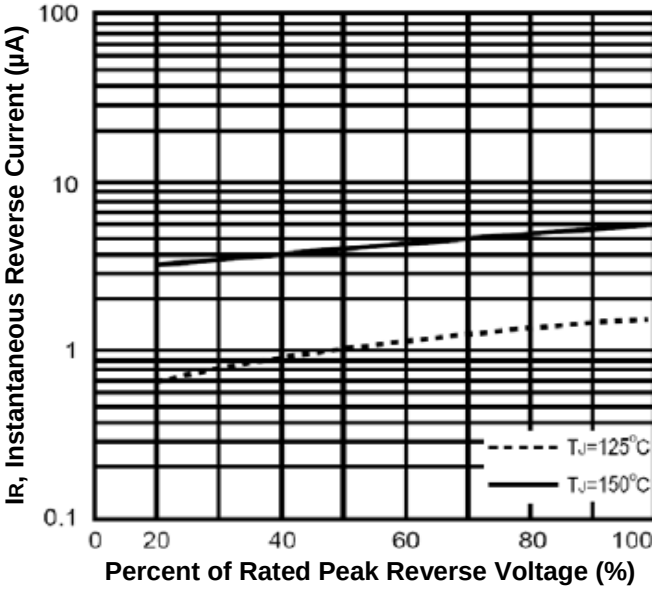
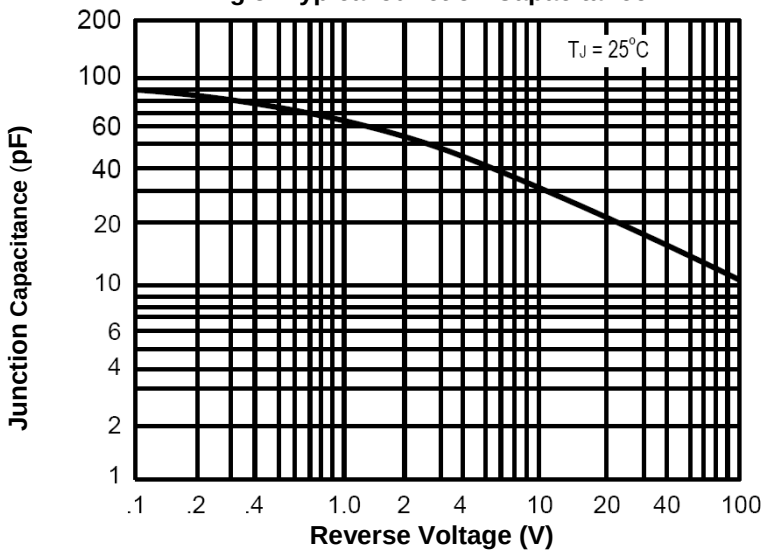
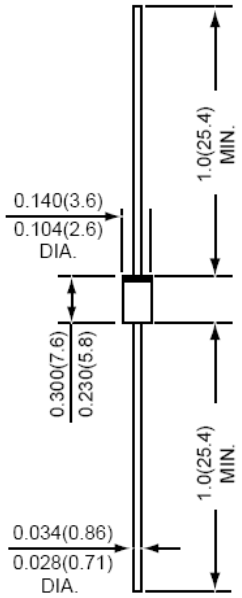


Fig.5- Typical Junction Capacitance



Dimensions in inches (mm)



DO-15
(DO-204AC)

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