



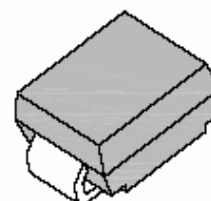
2.0A Sintered Glass Passivated Ultra Fast Rectifier

UGF2A - UGF2M

2.0A Sintered Glass Passivated Ultra Fast Rectifier

Features

- Sintered glass passivated (SGP) rectifier chip
- Glass passivated cavity-free junction
- Ideal for surface mount automotive applications
- Superfast recovery time for high efficiency
- Built-in strain relief
- Easy pick and place
- High temperature soldering guaranteed: 260°C/10 seconds, at terminals
- RoHS Compliance



SMB



Mechanical Data

Case:	JEDEC DO-214AA(SMB) molded plastic over passivated chip
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.003 ounces, 0.093 gram

www.DataSheet4U.com

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

Symbol	Description	UGF2A	UGF2B	UGF2D	UGF2G	UGF2J	UGF2K	UGF2M	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	T _A =75° C
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 Rectifier

UGF2A - UGF2M

Symbol	Description	UGF2A	UGF2B	UGF2D	UGF2G	UGF2J	UGF2K	UGF2M	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.0			1.25	1.7			V	I _F =1.0A
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}	Maximum Reverse Recovery Time	50				75			nS	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
C _J	Typical Junction Capacitance	45							pF	V _R =4V, f=1MHz
R _{thJA}	Typical Thermal Resistance	75							°C / W	Note
R _{thJL}		20								
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-65 to +175							° C	

Note: Thermal resistance from junction to ambient and from junction to lead P.C.B mounted on 0.2x0.2" (5.0x5.0mm) copper pad areas.

Typical Characteristics Curves

www.DataSheet4U.com

Fig.1- Forward Current Derating Curve

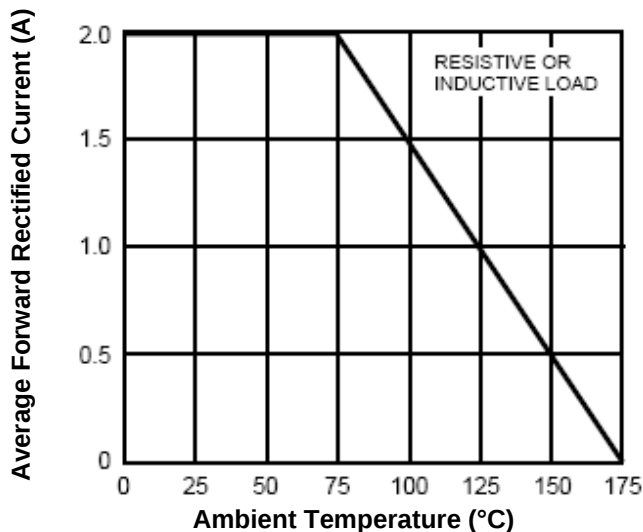
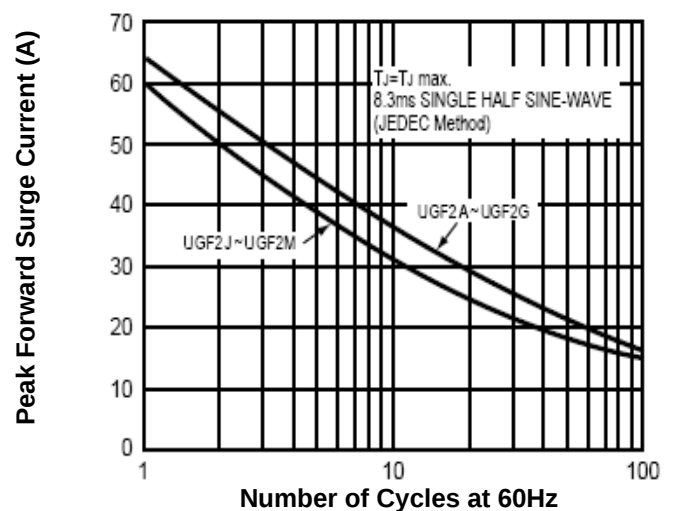


Fig.2-Max. Non-Repetitive Peak Forward Surge Current



2.0A Sintered Glass Passivated Ultra Fast Rectifier

UGF2A - UGF2M

Fig.3- Typical Instantaneous Forward Characteristics

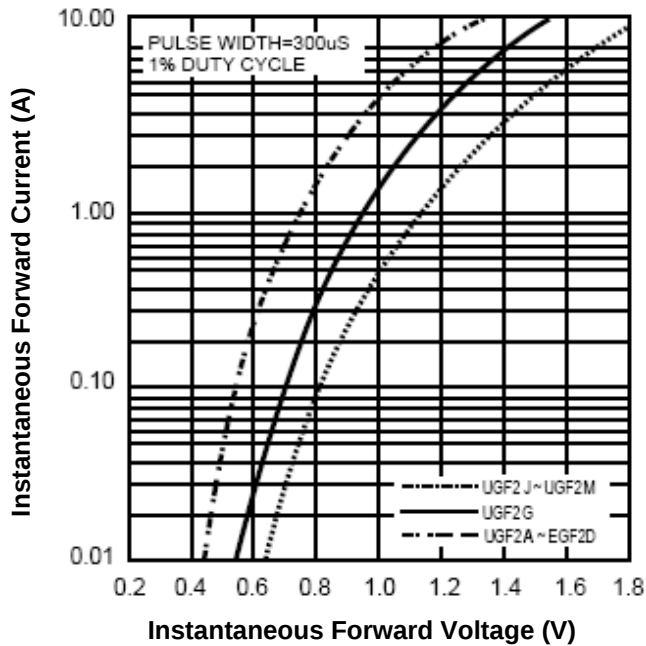


Fig.4-Typical Reverse Characteristics

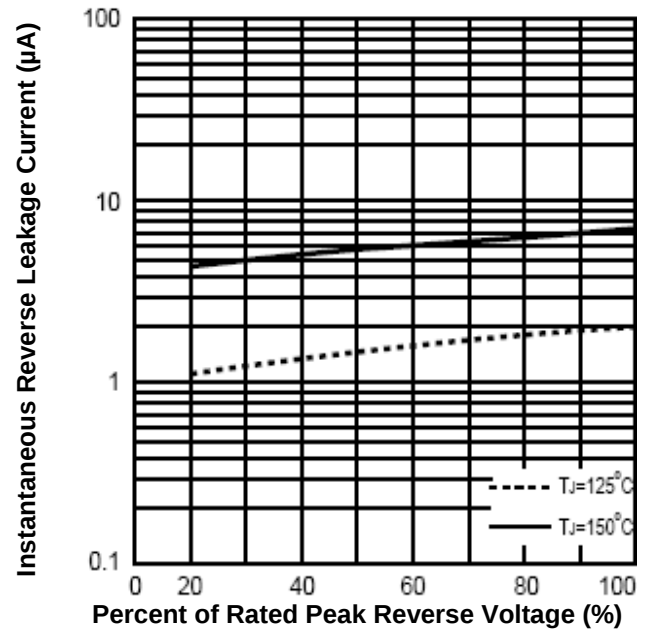
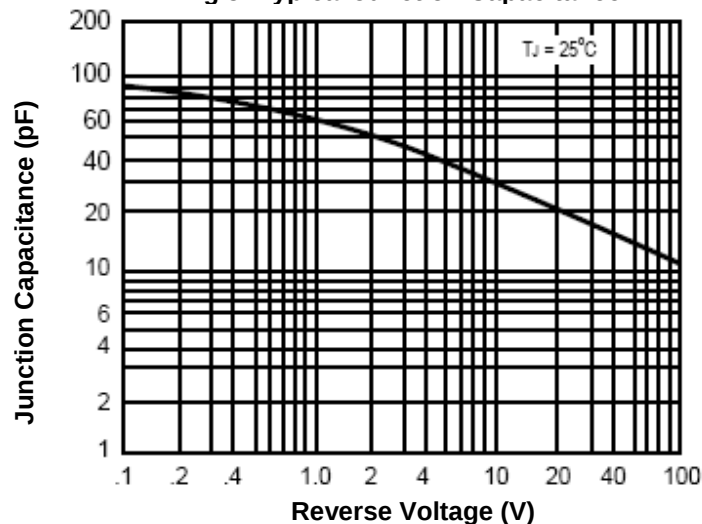


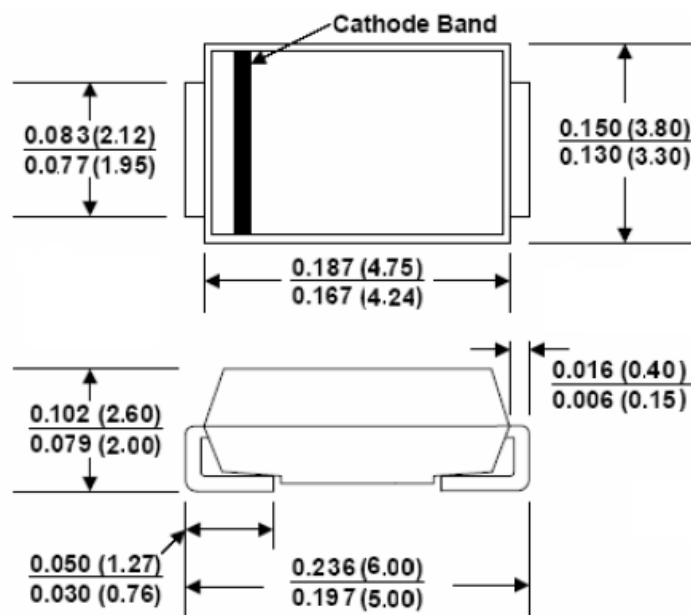
Fig.5- Typical Junction Capacitance



2.0A Sintered Glass Passivated Ultra Fast Rectifier

UGF2A - UGF2M

Dimensions in inches (mm)



SMB

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931

TAITRON
components incorporated

Rev. A/AH 2007-11-07