

TAITRON

components incorporated

1.0A Surface Mount Sintered Glass Passivated Rectifier

GF1Q - GF1MM

1.0A Surface Mount Sintered Glass Passivated Rectifier

Features

- Low profile surface mounted package
- Sintered glass passivated cavity-free junction
- Plastic package has underwriters laboratory flammability classification 94V-0
- High temperature soldering: 260 °C / 10 seconds at terminals
- RoHS compliant



SMA



Mechanical Data

Case:	JEDEC DO-214AC molded plastic
Terminals:	Solder plated solderable per MIL-STD-750, Method 2026
Polarity:	Cathode end indicated by color band
Weight:	0.002 Ounce, 0.064 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted)

Symbol	Description	GF 1Q	GF 1V	GF 1W	GF 1Y	GF 1Z	GF 1MM	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	1200	1400	1500	1600	1800	2000	V	
VRMS	Maximum RMS Voltage	840	980	1050	1120	1260	1400	V	
VDC	Maximum DC Blocking Voltage	1200	1400	1500	1600	1800	2000	V	
IF(AV)	Maximum Average Forward Rectified Current	1.0						A	
IFSM	Peak Forward Surge Current	25						A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Maximum Instantaneous Forward Voltage	1.25				2.0		V	IF=1.0A
IR	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0						μA	TA=25° C
		50							TA=125° C
CJ	Typical Junction Capacitance	12						pF	VR=4V, f=1MHz

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Symbol	Description	GF 1Q	GF 1V	GF 1W	GF 1Y	GF 1Z	GF 1MM	Unit	Conditions
RthJA	Typical Thermal Resistance	75						°C / W	Note
RthJL		27							
TJ, TSTG	Operating Junction and Storage Temperature Range	-55 to +150						° C	

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

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

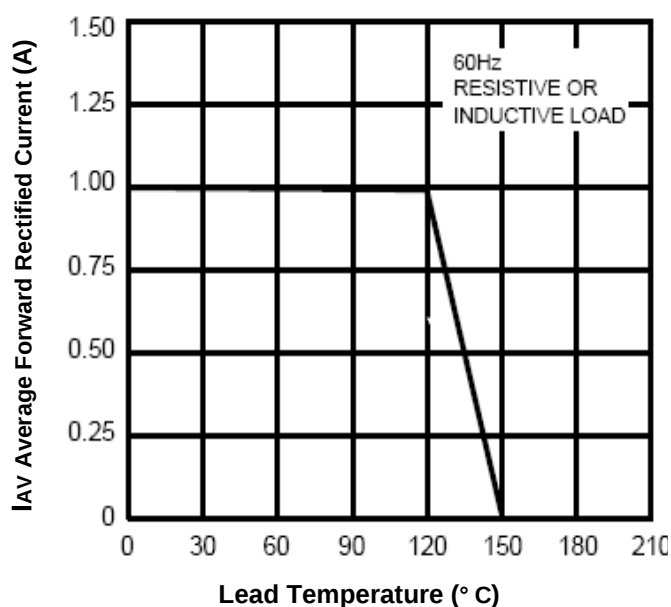
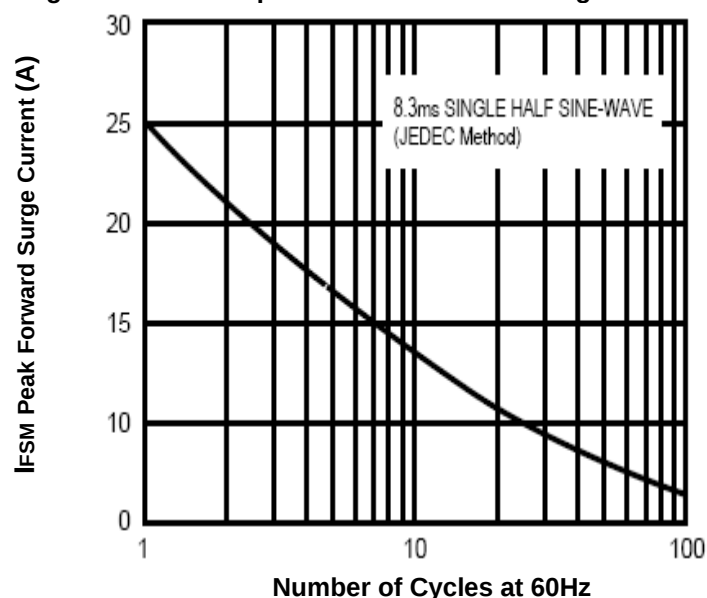


Fig.2- Max. Non-Repetitive Peak Forward Surge Current



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Fig.3- Typical Instantaneous Forward Characteristics

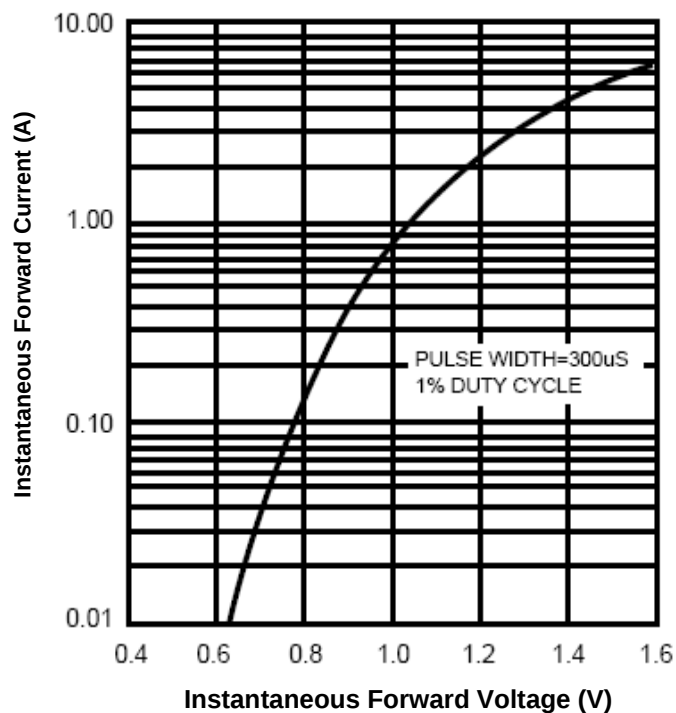


Fig.4- Typical Reverse Characteristics

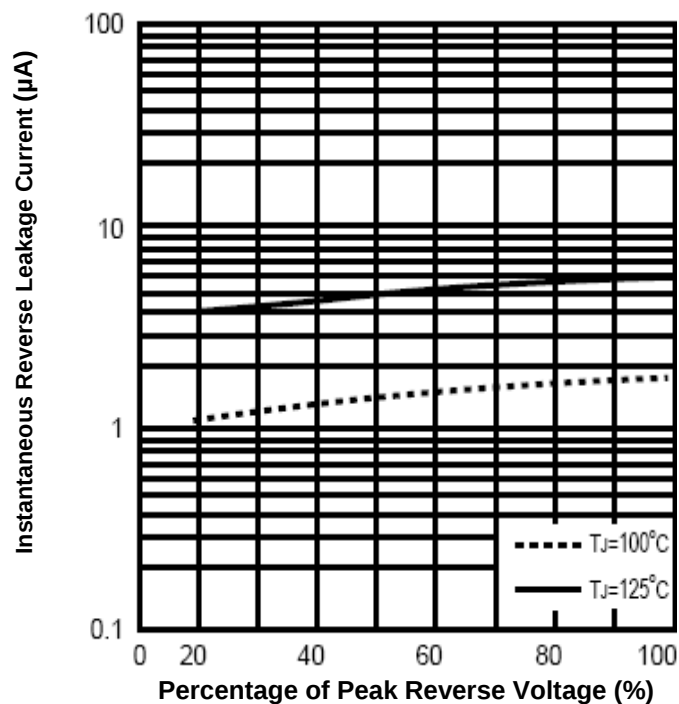
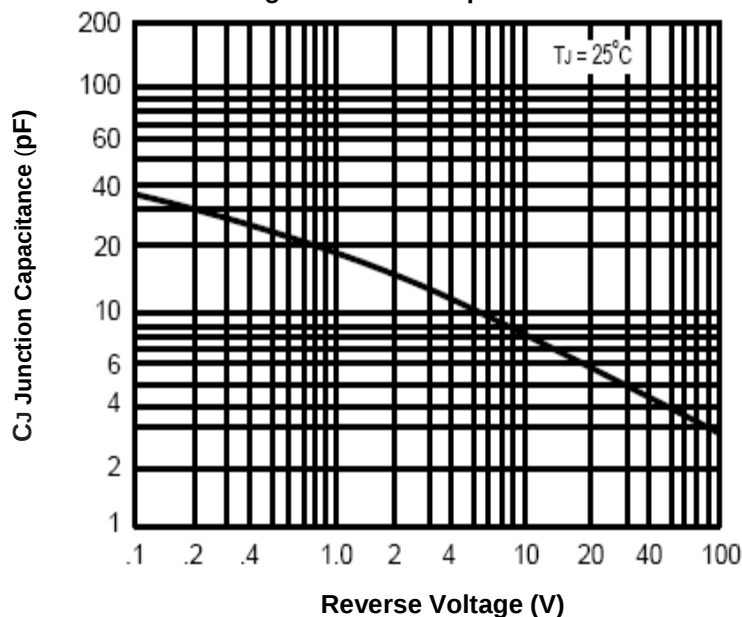


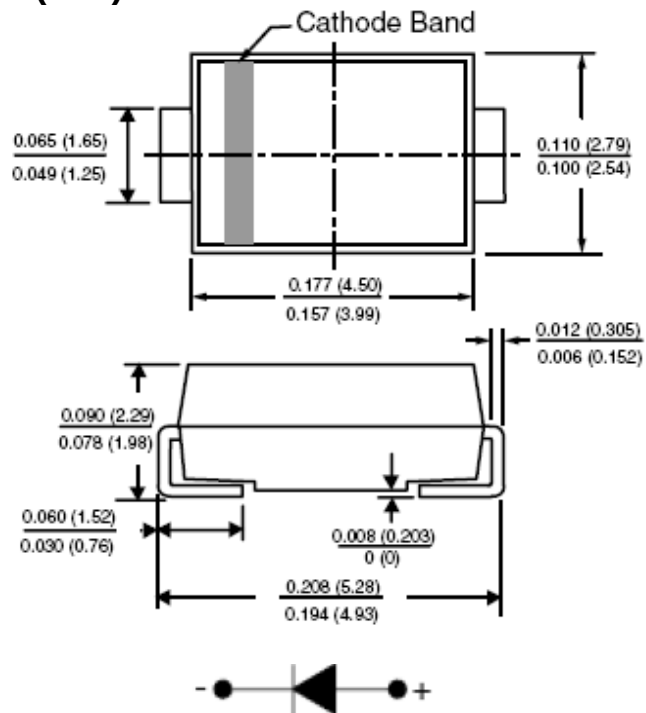
Fig.5- Junction Capacitance



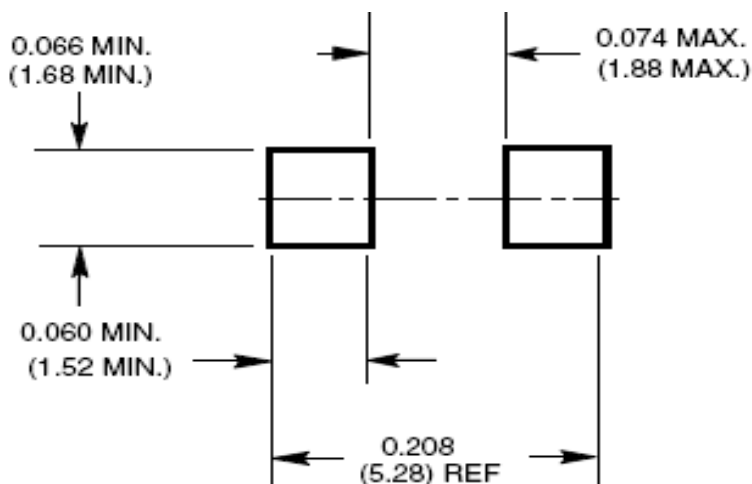
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Dimensions in inch (mm)



Soldering Pad in inch (mm)



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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 COMPONENTS INCORPORATED 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 COMPONENTS 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