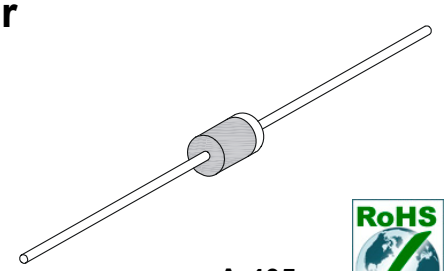
1.0A Glass Passivated Fast Recovery Rectifier

Features

- Low Forward Voltage Drop
- Glass passivated junction
- High Surge Current Capability
- High Reliability
- RoHS compliant



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Mechanical Data

Case:	Molded Plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Polarity:	Cathode indicated by color band
Weight:	0.008 Ounce, 0.235 gram

Maximum Ratings *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description	RL101FG	RL102FG	RL103FG	RL104FG	RL105FG	RL106FG	RL107FG	Unit
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
$I_{O(AV)}$	Maximum Average Forward Rectified Current @Ta=55° C	1.0							A
I_{FSM}	Peak Forward Surge Current (Note1)	30							A
T_{rr}	Maximum reverse recovery time(Note 2)	150				250	500		nS
T_J	Operating Junction Temperature Range	-55 to +150							° C
T_{STG}	Storage Temperature Range	-55 to +150							° C

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	RL101FG	RL102FG	RL103FG	RL104FG	RL105FG	RL106FG	RL107FG	Unit
V_F	Maximum Forward Voltage @ IF=1.0A	1.3							V
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	TA=25° C			5.0				µA
		TA=100° C			100				uA
CJ	Typical Junction Capacitance (Note3)	10							pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note4)	67							° C/W

Note: 1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
2. Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A.
3. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
4. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

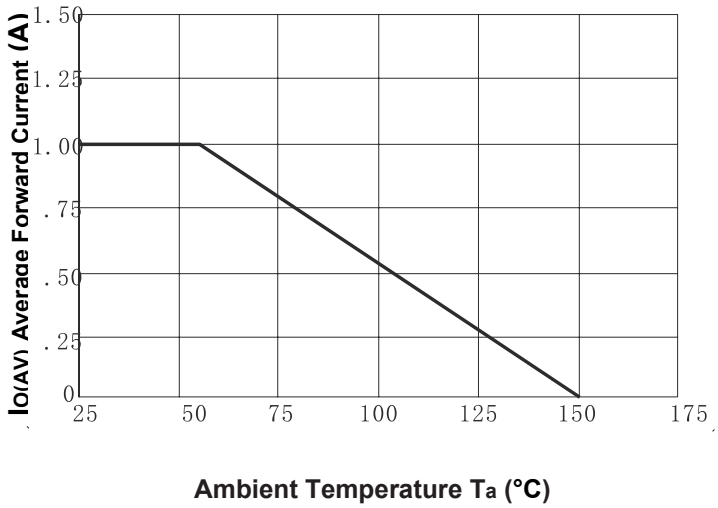


Fig.2-Max. Non-Repetitive Forward Surge Current

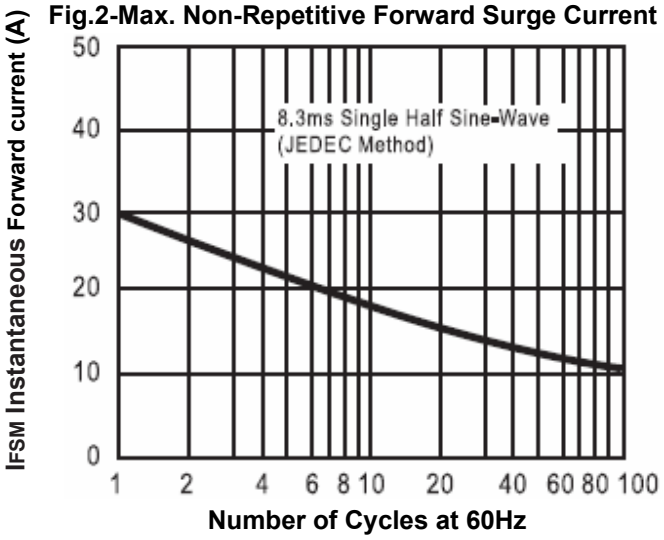


Fig.3-Typical Instantaneous Forward Characteristics

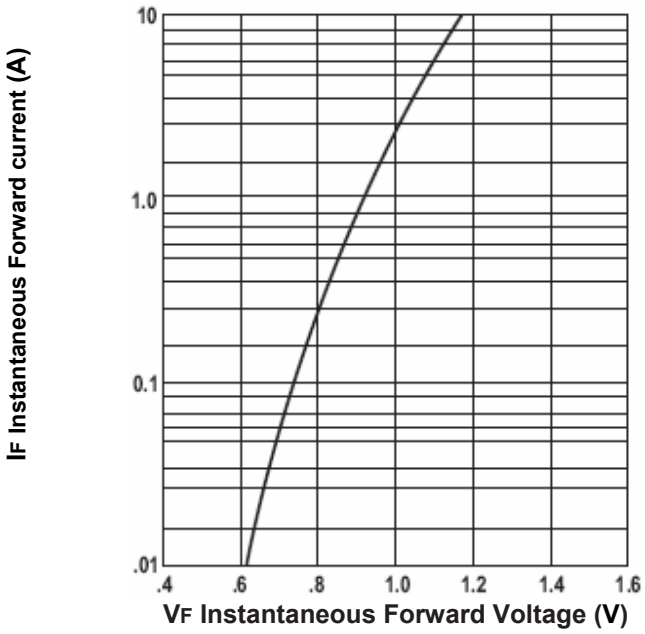


Fig.4- Typical Reverse Characteristics

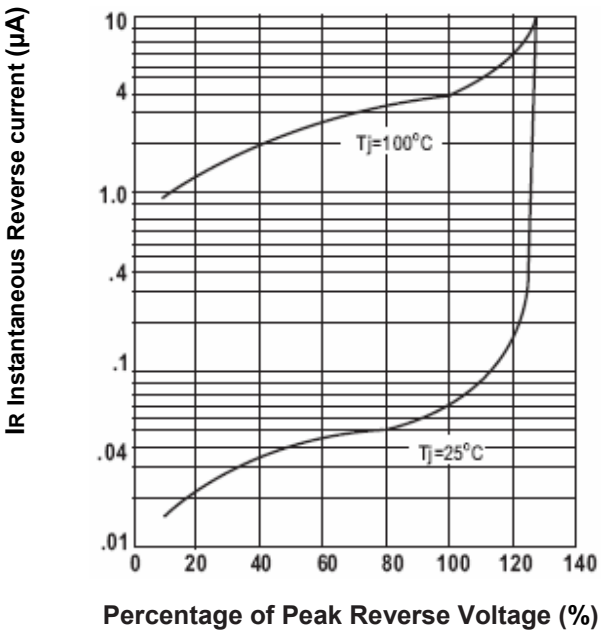
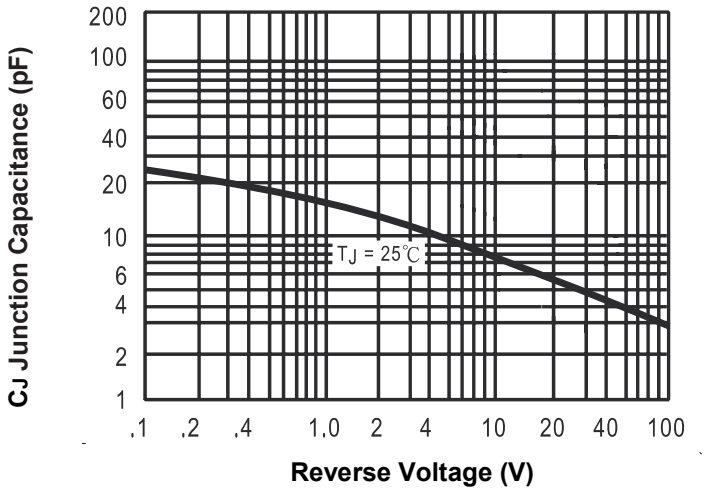


Fig.5-Typical junction capacitance



Dimensions in inches (mm)

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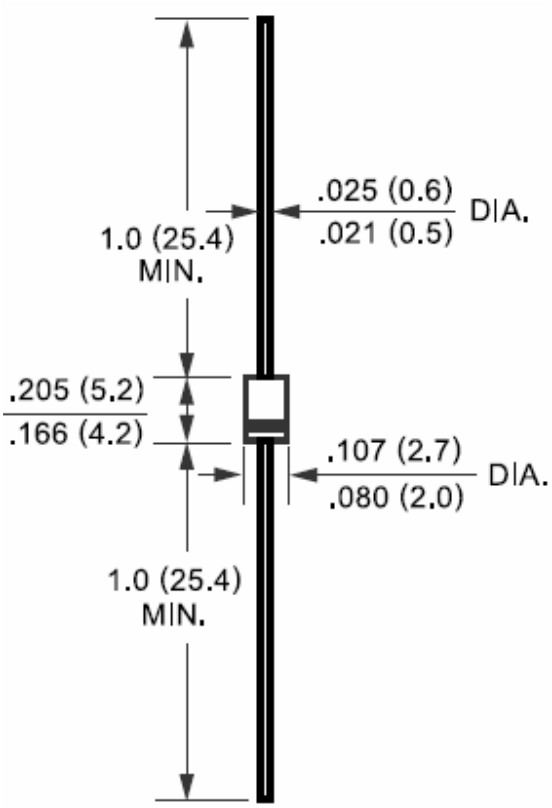

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKAWAY, 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 COMPONETS 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

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA
Tel: +86-21-5424-9942
Fax: +86-21-5424-9931