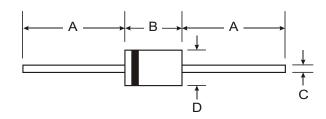


FR106 / FR107

1.0A FAST RECOVERY RECTIFIER

NOT RECOMMENDED FOR NEW DESIGNS, ______ PLEASE USE PR1006G - PR1007G

- Plastic Package: UL Flammability Classification Rating 94V-0
- Capable of Meeting the Environmental Tests in MIL-STD-750C
- High Reliability and Low Leakage
- · Fast Switching for High Efficiency



Mechanical Data

Features

• Case: DO-41, Molded Plastic

 Terminals: Axial Lead, Solderable per MIL-STD-202, Method 208

Mounting Position: AnyPolarity: Cathode Band

Weight: 0.35 grams (approx.)

DO-41				
Dim	Min	Max		
Α	25.4	_		
В	4.1	5.2		
С	0.71	0.86		
D	2.0	2.7		
All Dimensions in mm				

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Maximum Ratings and Electrical Characteristics

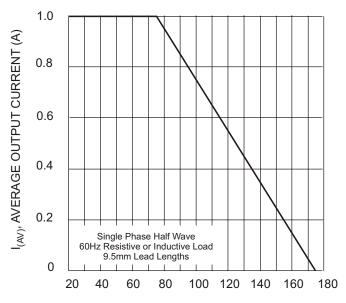
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	FR106	FR107	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	800	1000	V
Maximum RMS Voltage	V _{RSM}	560	700	V
Maximum DC Blocking Voltage	V _{DC}	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Lengths @ T _A = 75°C	I _(AV)	1.0		А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30		А
Maximum Forward Voltage at 1.0A	V _F	1.3		V
	I _R	5.0 100		μА
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	50		°C/W
Typical Junction Capacitance (Note 2)	CJ	15		pF
Maximum Reverse Recovery Time (Note 3)	T _{rr}	250	500	ns
Storage and Operating Temperature	T _J , T _{STG}	-65 to +175		°C

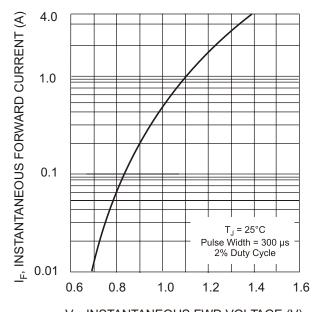
Notes: 1. Thermal Resistance from Junction to Ambient PC Board Mounting, 9.5mm Lead Length.

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 3. Measured with I_F= 0.5A, I_R=1.0A, I_{RR}=.25A

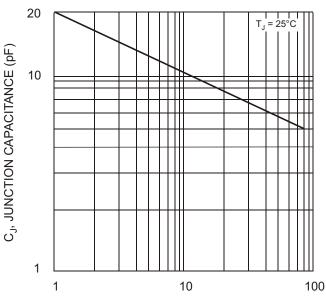




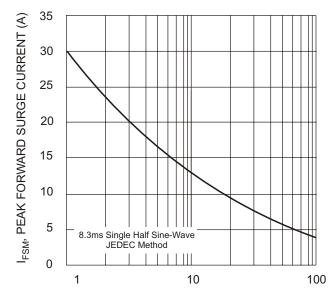
T_A, AMBIENT TEMPERATURE (°C) Fig. 1, Forward Current Derating Curve



V_F, INSTANTANEOUS FWD VOLTAGE (V) Fig. 2, Typical Forward Characteristics



 V_R , REVERSE VOLTAGE (V) Fig. 3, Typical Junction Capacitance



NUMBER OF CYCLES AT 60Hz Fig. 4, Max Non-Repetitive Peak Forward Surge Current