



# FR101 THRU FR107

**FAST RECOVERY RECTIFIERS**

<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>High surge current capability.</li> <li>Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Flame Retardant Epoxy Molding Compound.</li> <li>Void-free plastic in DO-41 package</li> <li>1.0 ampere operation at <math>T_A = 55^\circ\text{C}</math> with no thermal runaway.</li> <li>Fast switching for high efficiency.</li> <li>Exceeds environmental standards of MIL-STD-19500/228.</li> </ul> <p><b>MECHANICAL DATA</b></p> <p>Case: Molded plastic.          Terminals : Axial leads, solderable per.          MIL - STD - 202, Method 208.          Parity:Band denotes cathode.          Mounting position : Any.          Weight : 0.3 grams.</p>	<p style="text-align: center;"><b>VOLTAGE RANGE</b> 50 to 1000 Volts <b>CURRENT</b> 1.0 Amperes</p> <p style="text-align: center;"><b>DO-41</b></p> <p style="text-align: center;"><b>Dimensions in inches and (millimeters)</b></p>
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<b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>								
Ratings at 25 °C ambient temperature unless otherwise specified.								
Single phase, half wave,60Hz, resistive or inductive load.								
For capacitive load, derate current by 20%.								
RATINGS	FR101	FR102	FR103	FR104	FR105	FR106	FR107	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375" ( 9.5 mm ) Lead Lengths at $T_A = 55^\circ\text{C}$	1.0							A
Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load ( JEDEC Method )	30							A
Maximum Forward Voltage at 1.0A	1.3							V
Maximum DC Reverse current at rated DC blocking voltage $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	5.0							$\mu\text{A}$
Typical Junction Capacitance ( Note1 )	15							pF
Maximum Reverse Recover Time ( Note2 )	150			250		500		ns
Operating And Storage Temperature Range $T_j, T_{STG}$	-65 To + 175							$^\circ\text{C}$

**NOTES :** 1. Measured at 1 MHz and Applied Recovery Voltage Of 4.0 VDC  
 2. Reverse recovery test conditions:  $I_F = .5\text{A}$ ,  $I_R = 1\text{A}$ ,  $I_{rr} = .25\text{A}$



## RATING AND CHARACTERISTIC CURVES FR101 THRU FR107

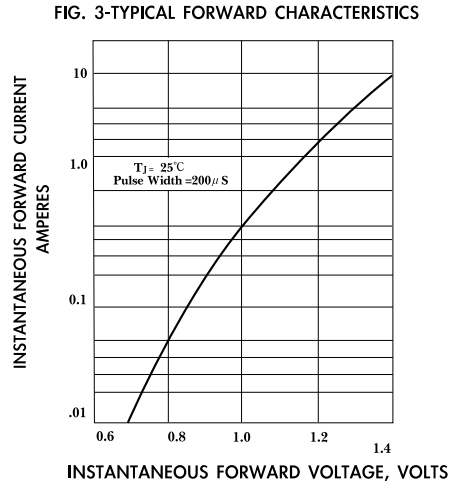
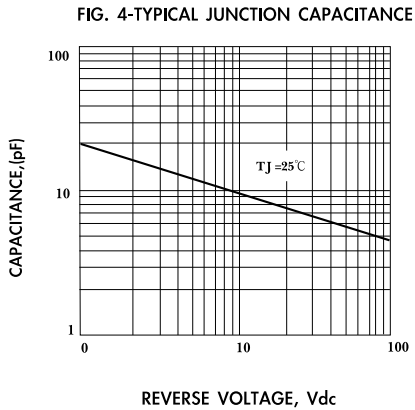
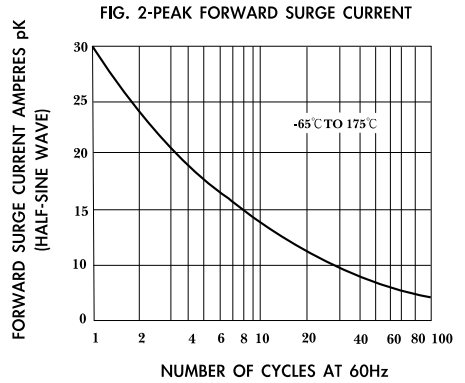
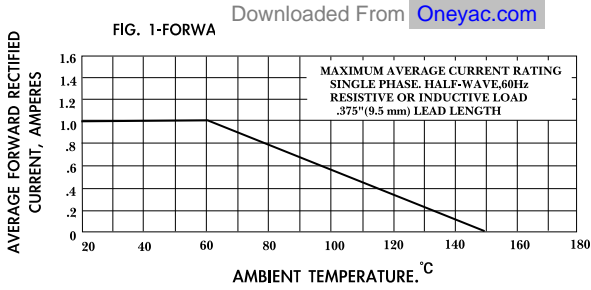
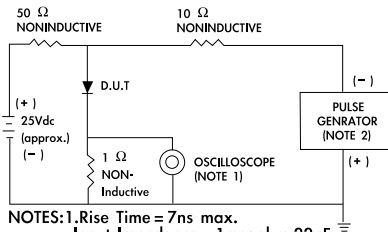
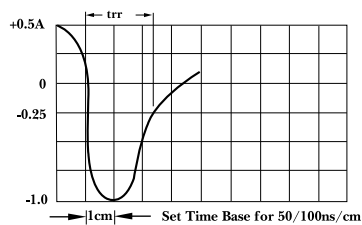


FIG. 5-REVERSE RECOVERY TIME CHARACTERISTICS AND TEST CIRCUIT DIAGRAM



- NOTES: 1. Rise Time = 7ns max.  
Input Impedance = 1megohm. 22pF.  
2. Rise Time = 10ns max.  
Source impedance = 50 ohms



单击下面可查看定价，库存，交付和生命周期等信息

[>>Panjit\(强茂\)](#)