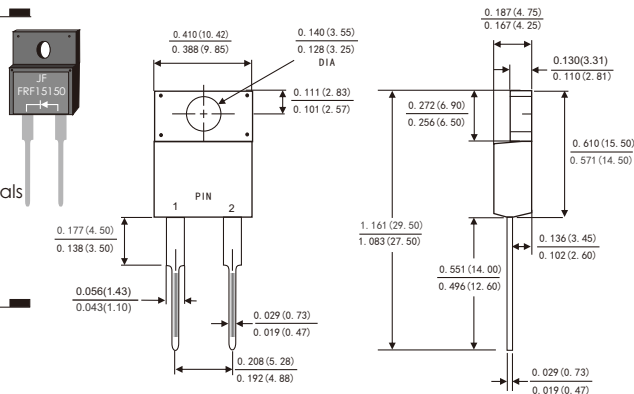


## FEATURES

- Low leakage
- Low power loss,High efficiency
- High current capability
- High current surge
- High breakdown voltage capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

## MECHANICAL DATA

- Case: ITO-220AC molded plastic body
- Terminals: Solder Plated solderable per MIL-STD-750,Method 2026
- Polarity: As marked
- Mounting Position: Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified.Single phase ,half wave ,60Hz,resistive or inductive load. For capacitive load,derate current by 20%.)

| Parameter  | Symbols            | Value      | Units         |
|--|--------------------|------------|---------------|
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$          | 1500       | Volts         |
| Maximum RMS Voltage  | $V_{RMS}$          | 1050       | Volts         |
| Maximum DC Blocking Voltage  | $V_{DC}$           | 1500       | Volts         |
| Maximum Average Forward Rectified Current  | $I_{(AV)}$         | 15.0       | Amps          |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | $I_{FSM}$          | 150        | Amps          |
| Maximum Instantaneous Forward Voltage at 5.0A  | $V_F$              | 1.25       | Volts         |
| Maximum DC Reverse Current at rated DC blocking voltage  | $T_A=25^{\circ}C$  | 10         | $\mu A$       |
|  | $T_A=100^{\circ}C$ | 250        |               |
| Maximum reverse recovery time(Note1)   | $t_{rr}$           | 150        | ns            |
| Typical thermal resistance junction to ambient   | $R_{\theta JA}$    | 75         | $^{\circ}C/W$ |
| Typical thermal resistance junction to case  | $R_{\theta JC}$    | 5          |               |
| Operating junction and storage temperature range   | $T_J$              | -55 to+150 | $^{\circ}C$   |
|  | $T_{STG}$          | -55 to+150 |               |

Note: 1.Test conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$ .

# RATINGS AND CHARACTERISTIC CURVES FRF15150

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

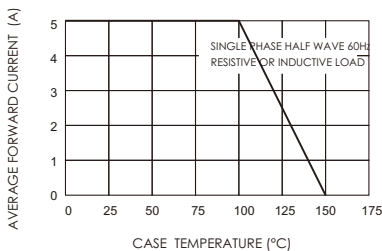


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

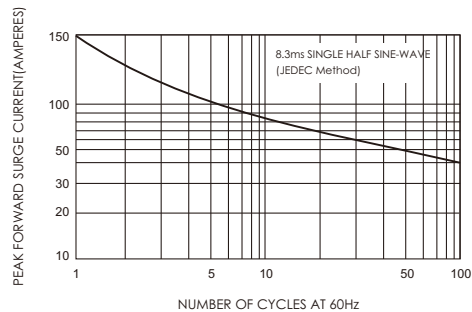


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

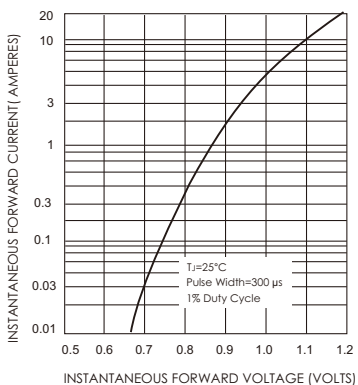


FIG.4-TYPICAL REVERSE CHARACTERISTICS

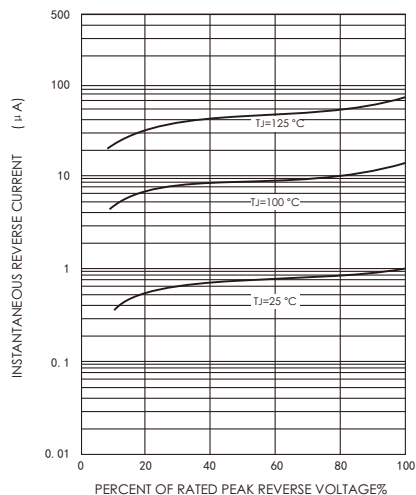
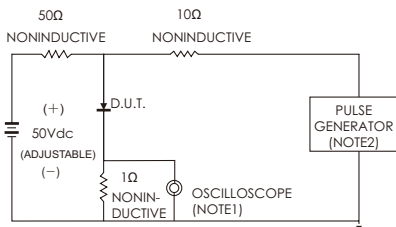


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time=7ns max. input Impedance=1 megohm 22pF  
2. Rise Time=10ns max. source Impedance=50 ohms

