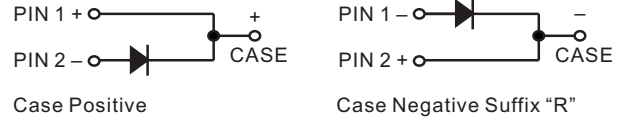




**8.0A Fast Recovery  
 Power Rectifiers - 50- 1000V**

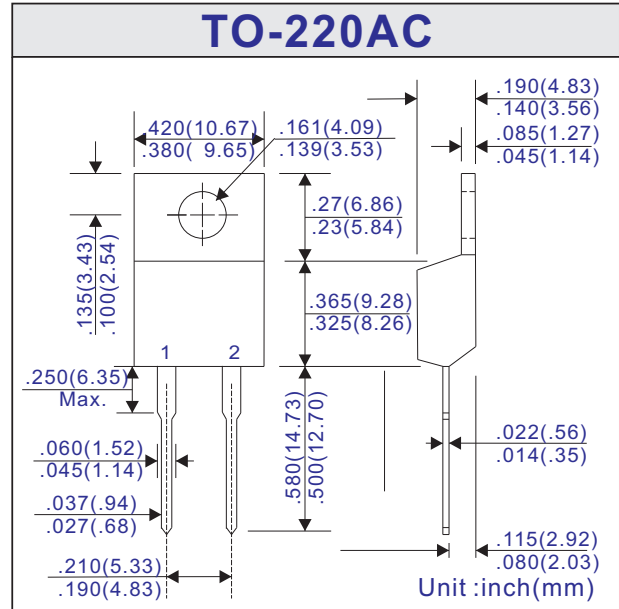


**FEATURES**

- Low forward drop down voltage
- Very Low reverse leakage current
- High current capability
- High reliability
- High surge current capability
- Glass passivated chip junction
- Lead free parts for green partner, meet RoHS requirements

**MECHANICAL DATA**

- Case: JEDEC TO-220AC molded plastic
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08 ounces, 2.24 grams
- Torque: 5 in. lbs. Max.



**MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified

	FR-	Symbols	8A01	8A02	8A03	8A04	8A05	8A06	8A07	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current See Figure 1		I(AV)	8.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150.0							Amps
Maximum Instantaneous Forward Voltage at 8.0A		VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	TA= 25°C TA=125°C	IR	5.0 100.0							µA
Typical Reverse Recovery Time (Note 1)		Trr	150			250	500			nS
Typical Junction Capacitance (Note 2)		CJ	65							pF
Typical Thermal Resistance (Note 3)		RθJC	2.2							°C/W
Operating Junction Temperature Range		TJ	-65 ~ +150							°C
Storage Temperature Range		TSTG	-65 ~ +150							°C

Note 1. Measured with If=0.5A, Ir=1A, IRR=0.25A  
 2. Measured at 1.0MHz and applied reverse voltage of 4.0Vdc  
 3. Thermal resistance junction to case

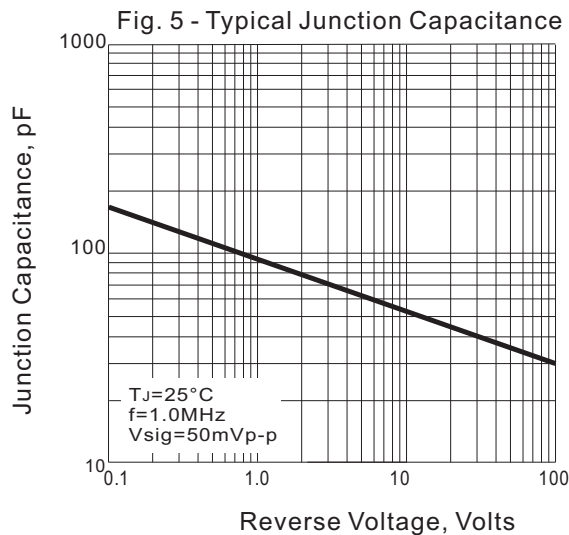
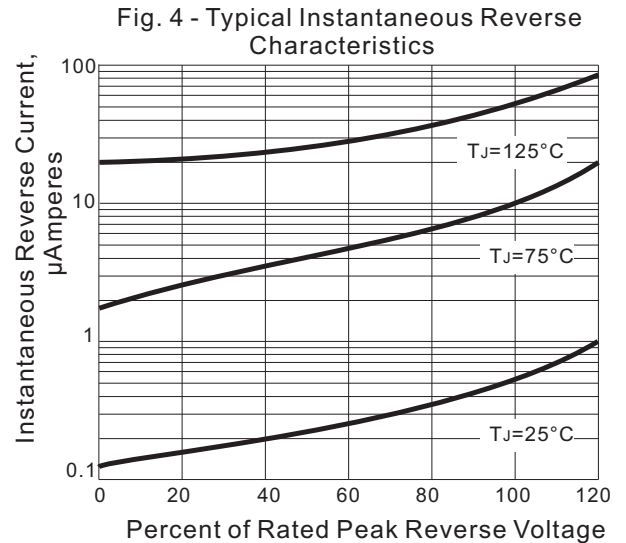
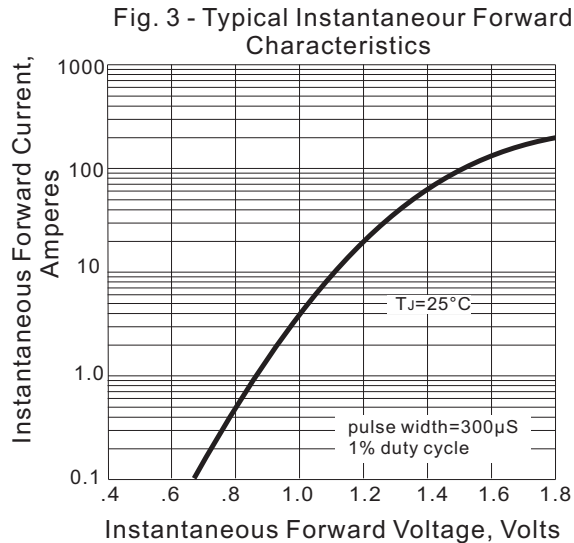
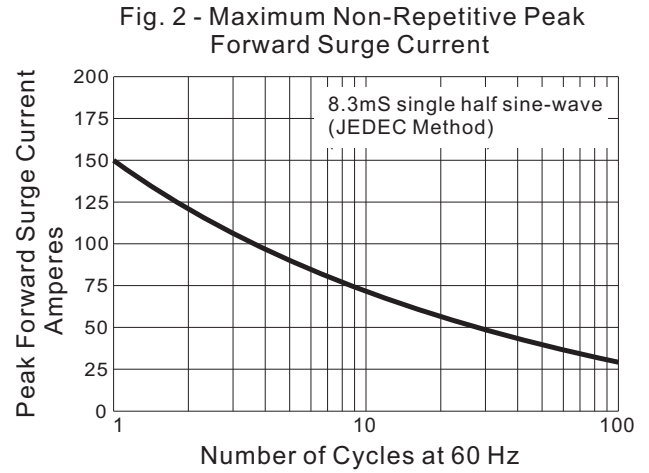
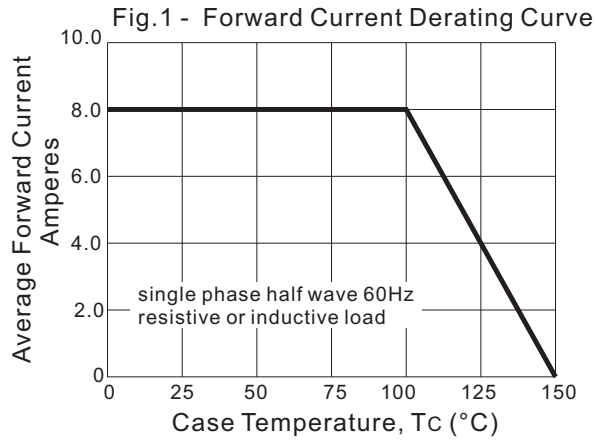
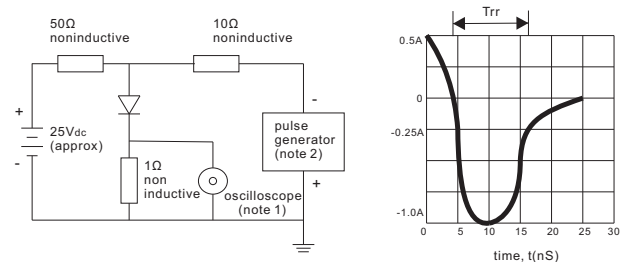


Fig. 6 - Test Circuit Diagram and Reverse Recovery Time Characteristic



Note: 1. rise time=7nS Max. input impedance=1MΩ, 22pF  
 2. rise time=10nS Max. source impedance=80Ω