

Pb Free Plating Product

FR1001A thru FR1007A





10.0 Ampere Heatsink Dual Common Anode Fast Recovery Rectifiers

Features

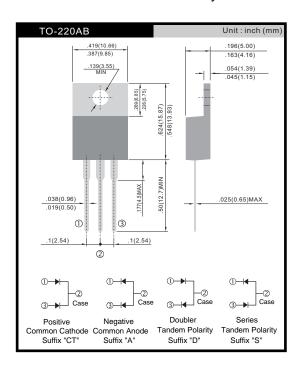
- Fast switching for high efficiency
- ★ Low forward voltage drop
- High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Application

- ★ Automotive Inverters/Solar Inverters
- ★ Plating Power Supply, SMPS and UPS
- ★ Car Audio Amplifiers and Sound Device Systems

Mechanical Data

- Case: Heatsink TO-220AB
- ★ Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Polarity: As marked on diode body
- ★ Mounting position: Any
- ★ Weight: 2.1 gram approxiamtely



Maximum Ratings and Electrical Characteristics

Ratings at $25\,^{\circ}\mathrm{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

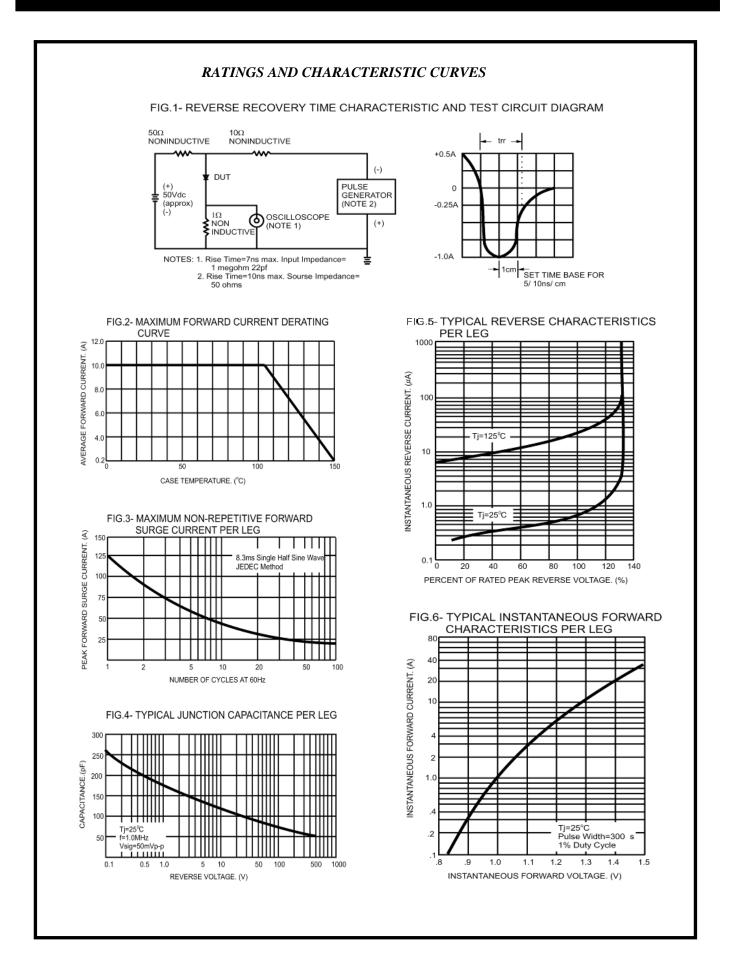
	Symbols	FR1001A	FR1002A	FR1003A	FR1004A	FR1005A	FR1006A	FR1007A	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current See Fig. 2	I _(AV)	10.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave	I_{FSM}	125							Amp
superimposed on rated load (JEDEC method) Maximum Forward Voltage at 5.0A DC and 25°C	V _F	1.3							Volts
$ \begin{array}{ll} \mbox{Maximum Reverse Current} & \mbox{at } T_C \!\!=\!\! 25 \mbox{$^{\circ}$C} \\ \mbox{at Rated DC Blocking Voltage} & \mbox{T_C} \!\!=\!\! 125 \mbox{$^{\circ}$C} \\ \end{array} $	I_R	5.0 100							uAmp
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3							°C/W
Maximum Reverse Recovery Time (Note 2)	T _{RR}		1:	50	•	250	50	00	nS
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150						ဗ	

NOTES:

- 1- Thermal Resistance from Junction to Case per Leg Mounted on Heatsink.
- 2- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.

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