FR1601 THRU FR1607

GLASS PASSIVATED FAST RECOVERY RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

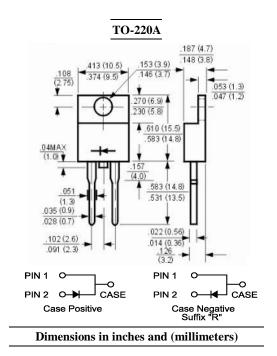
50 to 1000 VOLTS 16.0 AMPERE



- \cdot Low forward voltage drop
- · High current capability
- \cdot High capability
- \cdot High surge current capability

MECHANICAL DATA

Case: Molded plastic, TO-220A Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed Polarity: As marked Mounting position: Any Weight: 0.08ounce, 2.24gram



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Maximum Ratings and Electrical Characteristics

Ratings at 25° ambient temperature unless otherwise specified. Single phase, half wave, $60H_z$, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	FR1601	FR1602	FR1603	FR1604	FR1605	FR1606	FR1607	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)	16.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	250							Amp
Maximum Forward Voltage at 16.0A DC and 25℃	V _F	1.3							Volts
Maximum Reverse Currentat $T_C=25^{\circ}C$ at Rated DC Blocking Voltage $T_C=125^{\circ}C$	I _R	5.0 100							uAmp
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	2.5							°C/W
Maximum Reverse Recovery Time (Note 2)	T _{RR}		1:	50		250	5	00	nS
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							C

NOTES:

1- Thermal Resistance from Junction to Case Mounted on Heatsink.

2- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

