

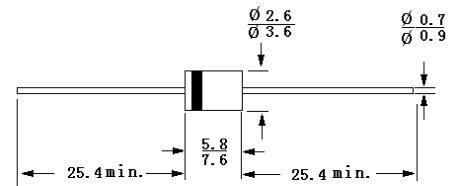
FR201 THRU FR207

FAST RECOVERY RECTIFIERS Reverse Voltage – 50 to 1000 Volts Forward Current – 2.0 Amperes

Features

- High Current Capability
- Fast switching for high efficiency
- Low Leakage.
- 2 ampere operation at $T_A = 55^\circ\text{C}$ with no thermal runaway

DO-15



Dimensions in mm

Mechanical Data

- **Case:** Molded plastic, DO-15
- **Lead:** Axial leads, solderable per MIL-STD-202, method 208 guaranteed.
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

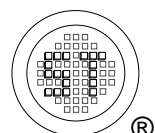
Absolute Maximum Ratings and Characteristics

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%.

	Symbols	FR201	FR202	FR203	FR204	FR205	FR206	FR207	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average forward rectified current .375" (9.5mm) lead length at T _A = 55°C	I _(AV)	2							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60							A
Maximum forward voltage at 2A DC and 25°C	V _F	1.3							V
Maximum reverse current T _A = 25°C at rated DC blocking voltage T _A = 100°C	I _R	5 100							μA
Maximum reverse recovery time ¹⁾	T _{rr}	150				250	500		nS
Typical junction capacitance ²⁾	C _J	40							pF
Storage Temperature Rrange	T _{Stg}	-55 to +150							°C
Operating Temperature Range	T _{opr}	-55 to +125							°C

¹⁾ Reverse recovery test conditions: $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{rr} = 0.25\text{A}$.

²⁾ Measured at 1MHz and applied reverse voltage of 4 VDC .



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