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捷多邦，专业PCB打样工厂，24小时加急

FR201 THRU FR207

FAST RECOVERY RECTIFIER

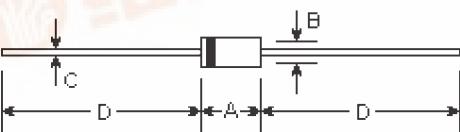
Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Construction utilizes void-free molded plastic technique
- 2.0 ampere operation at $T_A=75^\circ\text{C}$ with no thermal runaway
- High temperature soldering guaranteed: $250^\circ\text{C}/10$ seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

DO-15



Mechanical Data

- Case:** DO-15 molded plastic body
- Terminals:** Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity:** Color band denotes cathode end
- Mounting Position:** Any
- Weight:** 0.014 ounce, 0.39 gram

DIM	DIMENSIONS				Note	
	inches		mm			
	Min.	Max.	Min.	Max.		
A	0.228	0.299	5.8	7.6		
B	0.102	0.142	2.6	3.6	Φ	
C	0.028	0.034	0.71	0.86	Φ	
D	1.000	-	25.40	-		

Maximum Ratings and Electrical Characteristics $@25^\circ\text{C}$ unless otherwise specified

	Symbols	FR201	FR202	FR203	FR204	FR205	FR206	FR207	FR207-STR	Units				
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	1000	Volts				
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	700	Volts				
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	1000	Volts				
Average forward rectified current at $T_A=75^\circ\text{C}$	$I_{(AV)}$	2.0						Amps						
Peak forward surge current 8.3mS single half sine-wave (MIL-STD-750D 4066 method)	I_{FSM}	70.0						Amps						
Maximum instantaneous forward voltage at $I_F=2.0\text{A}$, $T_A=25^\circ\text{C}$ (Note 3)	V_F	1.3						Volts						
Maximum DC reverse current at rated DC blocking voltage $T_r=25^\circ\text{C}$, $T_A=100^\circ\text{C}$	I_r	5.0 100.0						μA						
Maximum reverse recovery time (Note 1)	T_{rr}	150		250		500		250		nS				
Typical junction capacitance (Note 2)	C_j	40.0						pF						
Operating and storage temperature range	T_J , T_{STG}	-65 to +150						$^\circ\text{C}$						

Notes:

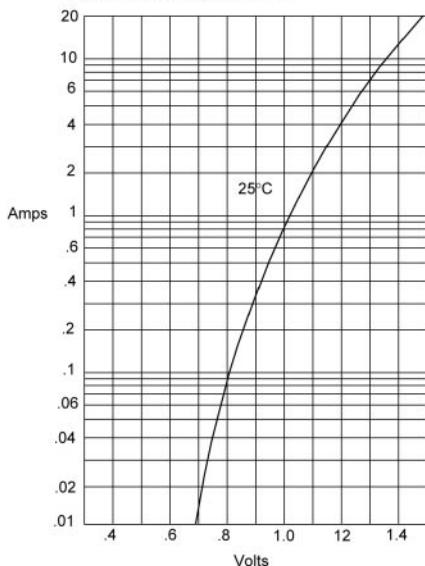
(1) Reverse recovery test conditions: $I_F=0.5\text{A}$, $I_r=1.0\text{A}$, $I_{rr}=0.25\text{A}$

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts

(3) Pulse test: pulse width 300uSec, Duty cycle 1%

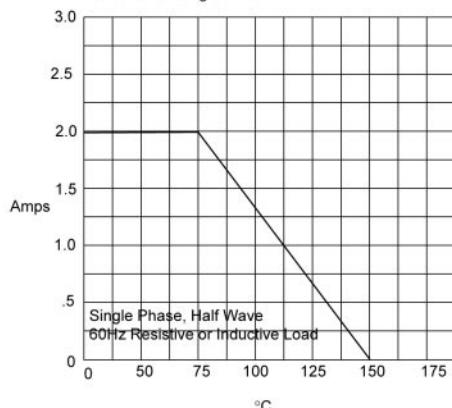
RATINGS AND CHARACTERISTIC CURVES

Figure 1
Typical Forward Characteristics



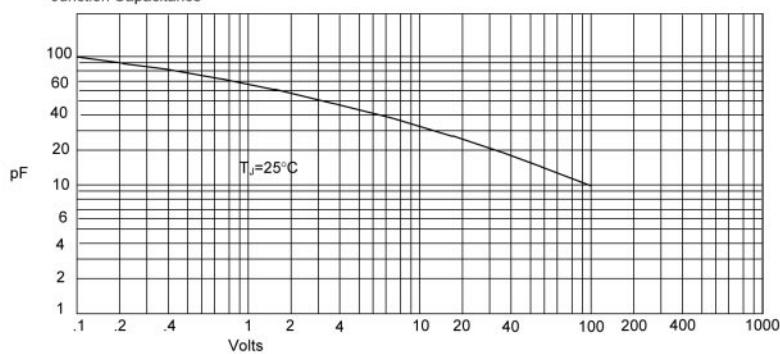
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

RATINGS AND CHARACTERISTIC CURVES

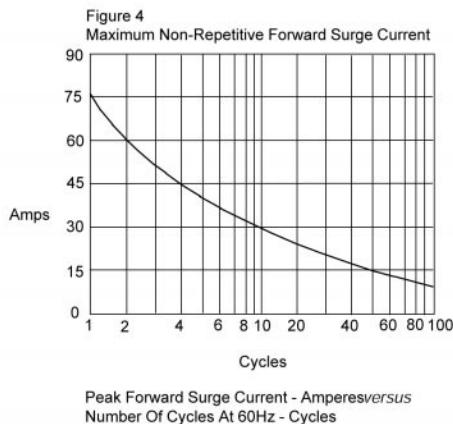


Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram

