



Fast Recovery Rectifiers

FEATURES

- · High current capability
- \cdot 2.0 ampere operation at T_A =55 with no thermal runaway.
- · Fast switching for high efficiency
- · Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.

MECHANICAL DATA

Case: Molded plastic, DO-15

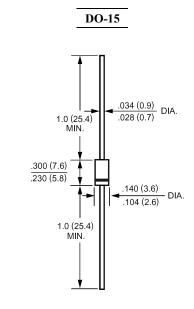
Epoxy: UL 94V-O rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any Weight: 0.015ounce, 0.4gram



Dimensions in inches and (millimeters)

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	FR201	FR202	FR203	FR204	FR205	FR206	FR207	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 .375"(9.5mm) Lead Length at T_A =55	I _(AV)	2.0							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}	I _{FSM} 60							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 2.0A DC and 25	$\mathbf{V_F}$	1.3							Volts
Maximum Reverse Current at T _A =25	_	5.0							uAmp
at Rated DC Blocking Voltage T _A =100	I_R	500							
Typical Junction Capacitance (Note 1)	C_{J}	35							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	22							/W
Maximum Reverse Recovery Time (Note 3)	T_{RR}		1	50		250	5	00	nS
Operating and Storage Temperature Range	T _J , Tstg	-55 to +125							

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.
- 3- Reverse Recovery Test Conditions : I_F =.5A , I_R =1A , I_{RR} =.25A.

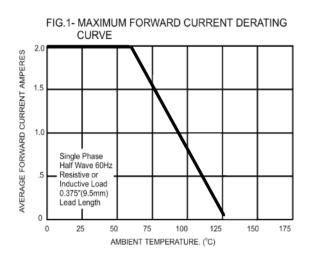


version: 03



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RATINGS AND CHARACTERISTIC CURVES



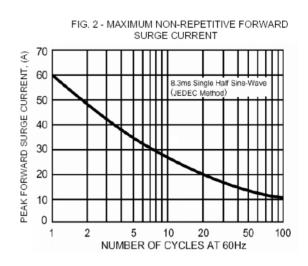


FIG.3- TYPICAL FORWARD CHARACTERISTICS

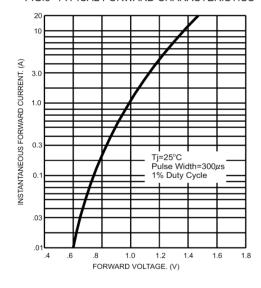


FIG.4- TYPICAL JUNCTION CAPACITANCE

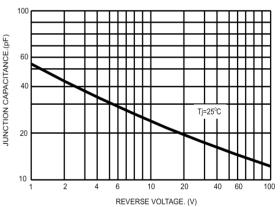
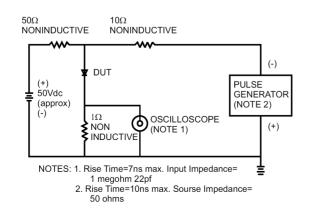
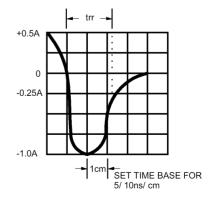


FIG.5- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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