

Glass Passivated Rectifier Diodes

V_{RRM} - 200 Volts to 1000 Volts, 2A

multicomp PRO

**RoHS
Compliant**



Features

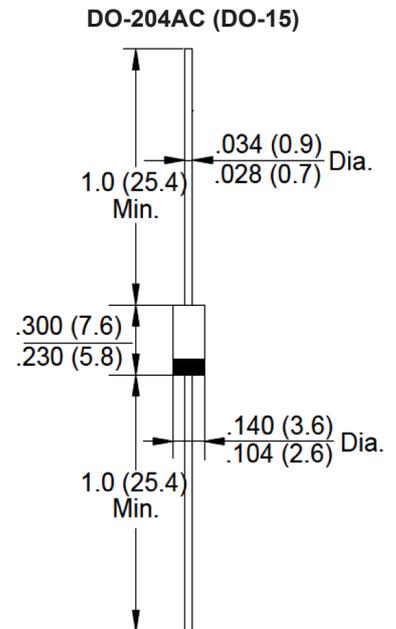
- Low cost
- Low reverse leakage current
- Low forward voltage drop
- Fast switching for high efficiency
- High current capability
- Meet UL flammability classification 94V-0
- Lead free
- Case style: DO-204AC (DO-15) molded plastic

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.



Dimensions : Inches (Millimetres)

Characteristics	Symbol	FR203G	FR206G	FR207G	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	560	700	
Maximum DC Blocking Voltage	V _{DC}	200	800	1000	
Maximum Average Forward Rectified Current @ T _A = 50°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
Peak Forward Voltage at 2A DC (Note1)	V _F	1.3			V
Maximum DC Reverse Current @T _J = 25°C at Rated DC Blocking Voltage @T _J = 100°C	I _R	5 100			μA
Maximum Reverse Recovery Time (Note 2)	T _{RR}	150	500		
Typical Junction Capacitance (Note3)	C _J	30	20		pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	25			°C/W
Operating Junction Temperature Range	T _J	-55 to +150			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

Notes:

1. 300μS pulse width, 2% duty cycle
2. Measured with I_F = 0.5A, I_R = 1A, I_{RR} = 0.25A
3. Measured at 1MHz and applied reverse voltage of 4V DC
4. The typical data above is for reference only

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Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

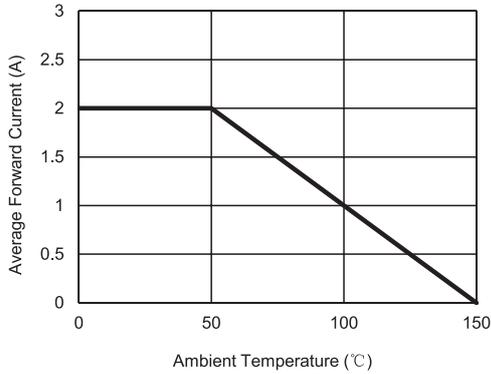


Fig. 2 - Maximum Non-Repetitive Surge Current

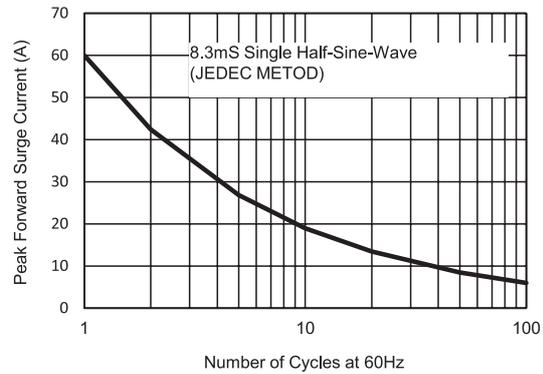


Fig. 3 - Typical Junction Capacitance

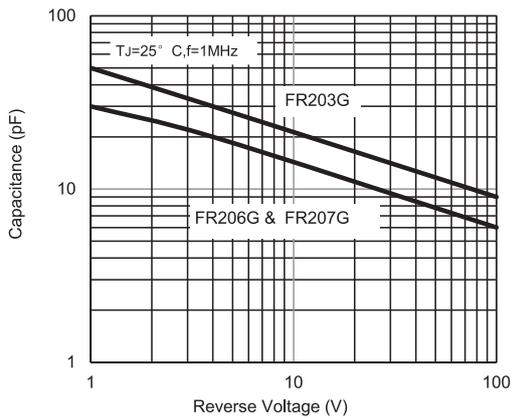
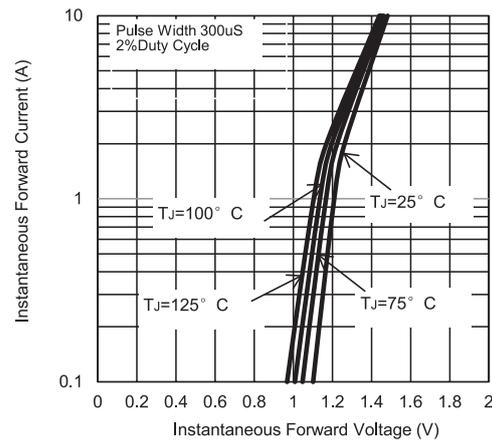


Fig. 4 - Typical Forward Characteristics



Part Number Table

Description	Part Number
Rectifier Diode, 200V, 2A, DO-204AC (DO-15)	FR203G
Rectifier Diode, 800V, 2A, DO-204AC (DO-15)	FR206G
Rectifier Diode, 1kV, 2A, DO-204AC (DO-15)	FR207G

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