Glass Passivated Rectifier Diodes VRRM - 100 Volts & 1000 Volts, 1A

multicomp PRO



Features

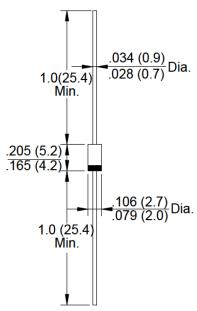
- · Low cost
- · Fast switching for high efficiency
- · Low reverse leakage current
- Low forward voltage drop
- · High current capability
- Meet UL flammability classification 94V-0
- Lead free
- · Case style: DO-204AL (DO-41) molded plastic

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%.

RoHS Compliant





Dimensions : Inches (Millimetres)

Characteristics	Symbol	FR102G	FR107G	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	100	1000	
Maximum RMS Voltage	VRMS	70	700	V
Maximum DC Blocking Voltage	VDC	100	1000	
Maximum Average Forward Rectified Current @ TA = 75°C	I(AV)	1		А
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	Ігѕм	30		А
Peak Forward Voltage at 1A DC (Note 1)	VF	1.3		V
Maximum DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	IR	5 100		μA
Maximum Reverse Recovery Time (Note 2)	Trr	150	500	nS
Typical Junction Capacitance (Note 3)	CJ	25	15	pF
Typical Thermal Resistance (Note 3)	Rеја	25		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Tstg			

Notes:

- 1. 300µS pulse width, 2%duty cycle
- 2. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A
- 3. Measured at 1MHz and applied reverse voltage of 4V DC
- 4. The typical data above is for reference only

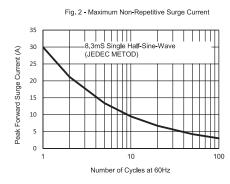
Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands

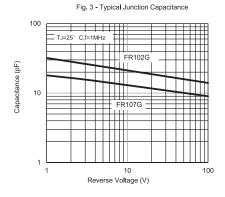


Glass Passivated Rectifier Diodes VRRM - 100 Volts & 1000 Volts, 1A



Rating and Characteristic Curves





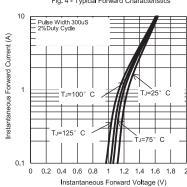


Fig. 4 - Typical Forward Characteristics

Part Number Table

Description	Part Number	
Rectifier Diode, 100V, 1A, DO-204AL (DO-41)	FR102G	
Rectifier Diode, 1kV, 1A, DO-204AL (DO-41)	FR107G	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands

