Glass Passivated Rectifier Diodes VRRM - 400 Volts & 1000 Volts, 1A

multicomp PRO



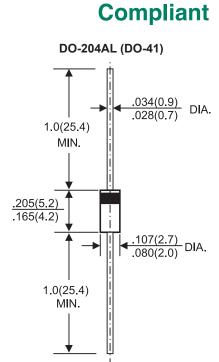
Features

- Low cost
- Fast switching for high efficiency
- Diffused junction
- 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



Dimensions: Inches (Millimetres)

Characteristics	Symbol	BA157G	BA159G	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	400	1000	
Maximum RMS Voltage	VRMS	280	700	V
Maximum DC Blocking Voltage	VDC	400	1000	7
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)	IFSM	30		А
Peak Forward Voltage at 1A DC	VF	1.3		V
Maximum DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	lr	5 100		μА
Maximum Reverse Recovery Time (Note 1)	Trr	300		nS
Typical Junction Capacitance (Note 2)	Сл	25	15	pF
Typical Thermal Resistance (Note 3)	Rөja	25		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс			

Notes:

- 1. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4V DC
- 3. Thermal resistance junction to ambient

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Rating and Characteristic Curves

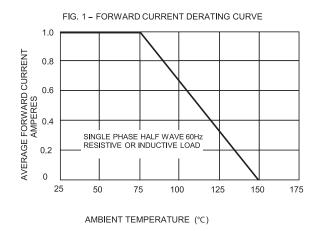
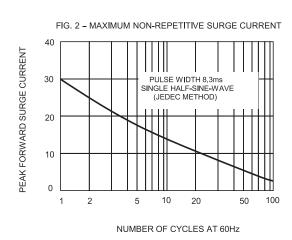
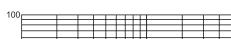
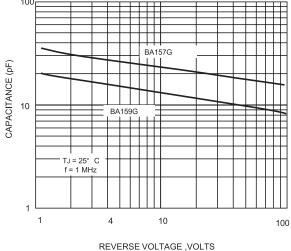
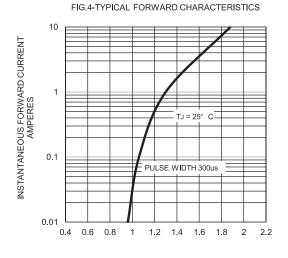


FIG.3 - TYPICAL JUNCTION CAPACITANCE









INSTANTANEOUS FORWARD VOLTAGE .VOLTS

Part Number Table

Description	Part Number	
Rectifier Diode, 400V, 1A, DO-204AL (DO-41)	BA157G	
Rectifier Diode, 1kV, 1A, DO-204AL (DO-41)	BA159G	

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