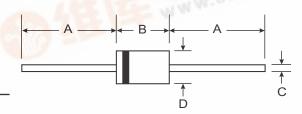


# 2A01G - 2A07G

### 2.0A GLASS PASSIVATED RECTIFIER

### **Features**

- Glass Passivated Die Construction
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 65A Peak
- Lead Free Finish, RoHS Compliant (Note 3)



### **Mechanical Data**

- Case: DO-15
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Solderable per MIL-STD-202, Method 208 @3
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.4 grams (approximate)

DO-15						
Dim	Min	Max				
Α	25.40	M-n-				
В	5.50	7.62				
С	0.686	0.889				
D	2.60	3.6				
All Dimensions in mm						

#### @ $T_A = 25$ °C unless otherwise specified Maximum Ratings and Electrical Characteristics

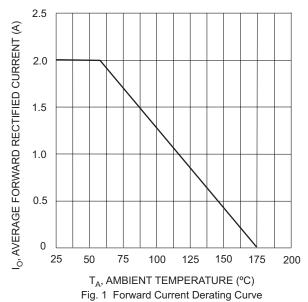
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	2A01G	2A02G	2A03G	2A04G	2A05G	2A06G	2A07G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	- 17	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	元刊加	V <sub>R(RMS)</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	@ T <sub>A</sub> = 55°C	lo				2.0		•		Α
Non-Repetitive Peak Forward Surge ( single half sine-wave superimposed of	Current 8.3ms n rated load	I <sub>FSM</sub>				65				Α
Forward Voltage	@ I <sub>F</sub> = 2.0A	V <sub>FM</sub>	1.1				- 171	V		
Peak Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 100°C	I <sub>RM</sub>				5.0 200	-7	701	CON	μΑ
I <sup>2</sup> t Rating For Fusing		I <sup>2</sup> t				17.5		OZS.		A <sup>2</sup> s
Typical Total Capacitance (Note 2)		Ст		- 4		40	44			pF
Typical Thermal Resistance Junction	to Ambient	$R_{\theta JA}$		/2 L-		60				°C/W
Operating and Storage Temperature	Range	T <sub>j,</sub> T <sub>STG</sub>		1	-	65 to +17	5			°C

- Notes: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
  - 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
  - 3. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.







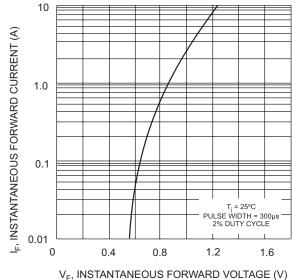
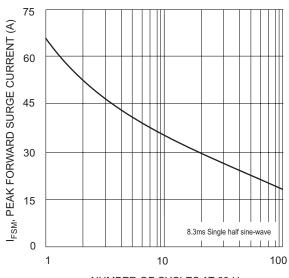
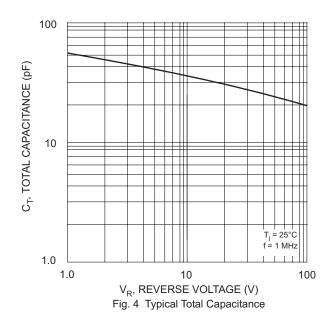
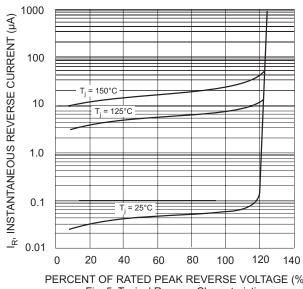


Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Peak Fwd Surge Current





PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



## Ordering Information (Note 4)

Device	Packaging	Shipping
2A01G-T	DO-15	4K/Tape & Reel, 13-inch
2A02G-T	DO-15	4K/Tape & Reel, 13-inch
2A03G-T	DO-15	4K/Tape & Reel, 13-inch
2A04G-T	DO-15	4K/Tape & Reel, 13-inch
2A05G-T	DO-15	4K/Tape & Reel, 13-inch
2A06G-T	DO-15	4K/Tape & Reel, 13-inch
2A07G-T	DO-15	4K/Tape & Reel, 13-inch

Notes: 4. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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