

2A01 - 2A07

2.0 AMPS. Silicon Rectifiers

DO-15

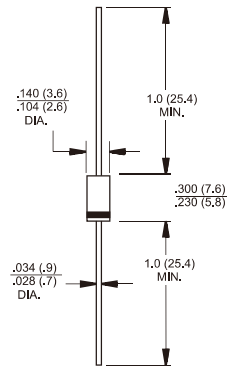


Features

- ✧ High efficiency, Low VF
- ✧ High current capability
- ✧ High reliability
- ✧ High surge current capability
- ✧ Low power loss
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ✧ Cases: Molded plastic
- ✧ Epoxy: UL 94V-0 rate flame retardant
- ✧ Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ✧ Polarity: Color band denotes cathode
- ✧ High temperature soldering guaranteed: 260°C/10 seconds/.375"(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- ✧ Weight: 0.40 grams



Dimensions in inches and (millimeters)

Marking Diagram



- 2A0X = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	Symbol	2A01	2A02	2A03	2A04	2A05	2A06	2A07	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T _A = 75 °C	I _{F(AV)}	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	60							A
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.0							V
Maximum DC Reverse Current at @ T _A =25°C Rated DC Blocking Voltage (Note 1) @ T _A =125°C	I _R	5.0 50							uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length @ T _A =75 °C	I _{R(AV)}	30							uA
Typical Junction Capacitance (Note 3)	C _j	20							pF
Typical Thermal Resistance (Note 2)	R _{θJA}	60							°C/W
Operating Temperature Range	T _J	-65 to +150							°C
Storage Temperature Range	T _{STG}	-65 to +150							°C

- Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle
2. Mount on Cu-Pad Size 10mm x 10mm on P.C.B.
3. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

RATINGS AND CHARACTERISTIC CURVES (2A01 THRU 2A07)

