





Features

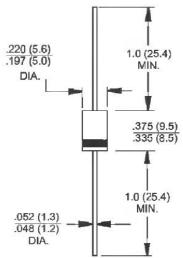
- → High efficiency, Low VF
- ♦ High current capability
- ♦ High reliability
- ♦ High surge current capability
- ♦ Low power loss
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode

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/10s
 /.375", (9.5mm) lead lengths at 5 lbs, (2.3kg) tension
- ♦ Weight: 1.2 grams

3.0 AMPS. Silicon Rectifiers DO-201AD

BY251 - BY254



Dimensions in inches and (millimeters)

Marking Diagram BY25X = Specific Device Code G = Green Compound Y = Year WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ 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	BY251	BY252	BY253	BY254	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length @T _A =75°C	I _{F(AV)}	3				А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150				А
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A	V _F	1.0				V
Maximum DC Reverse Current at @ T _A =25 ℃		5				uA
Rated DC Blocking Voltage @ T _A =125℃	I _R	100				uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length $@T_L=75$ $^{\circ}$	I _{R(AV)}	30				uA
Typical Junction Capacitance (Note 2)	Cj	40			pF	
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	40			°C/W	
Operating Temperature Range	T_{J}	- 65 to + 150				οС
Storage Temperature Range	T _{STG}	- 65 to + 150				οС

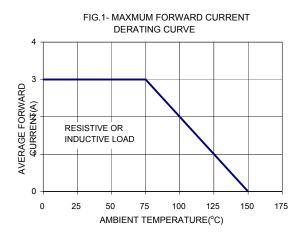
Note1: Pulse Test with PW=300 usec, 1% Duty Cycle

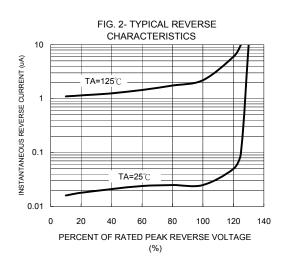
Note2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

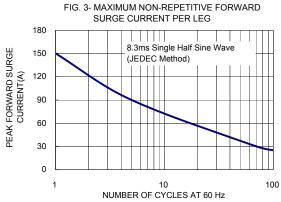
Note3: Mount on Cu-Pad Size 16mm × 16mm on P.C.B.

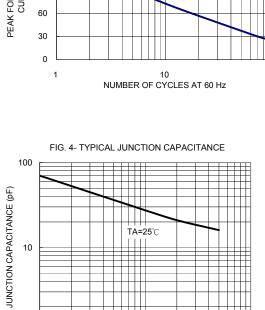


RATINGS AND CHARACTERISTIC CURVES (BY251 THRU BY254)









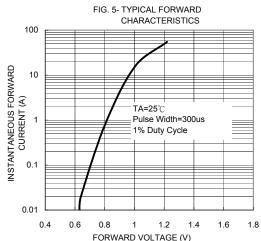
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REVERSE VOLTAGE (V)

100

10

1



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