



Features

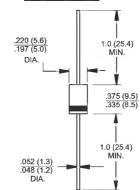
- High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

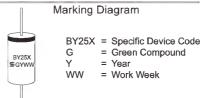
- Cases: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 1.2 grams

BY251 - BY255

3.0 AMPS. Silicon Rectifiers **DO-201AD**



Dimensions in inches and (millimeters)



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	BY251	BY252	BY253	BY254	BY255	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1300	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	910	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1300	V
Maximum Average Forward Rectified Current . 375 (9.5mm) Lead Length @T _A = 75 °C	I _(AV)	3.0					А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150					Α
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	1.0					V
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	5.0 100					uA uA
Maximum Full Load Reverse Current, Full Cycle Average .375"(9.5mm) Lead Length @T _L =75°C	HT _{IR}	30					uA
Typical Junction Capacitance (Note 1)	Cj	40					_pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40					°C/W
Operating Temperature Range	TJ	-65 to +150					°C
Storage Temperature Range	T _{STG}	-65 to +150					°C

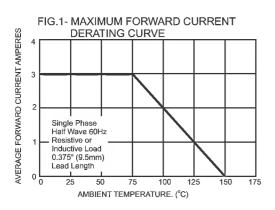
Notes:

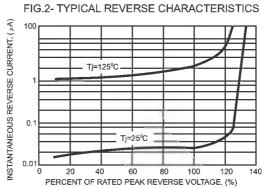
- 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
- 2. Mount on Cu-Pad Size 16mm x 16mm on P.C.B.

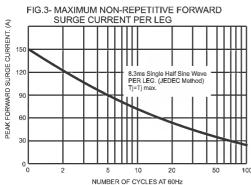
Version: B08



RATINGS AND CHARACTERISTIC CURVES (BY251 THRU BY255)







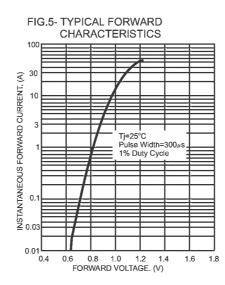


FIG.4- TYPICAL JUNCTION CAPACITANCE

