

# BY251 THRU BY255

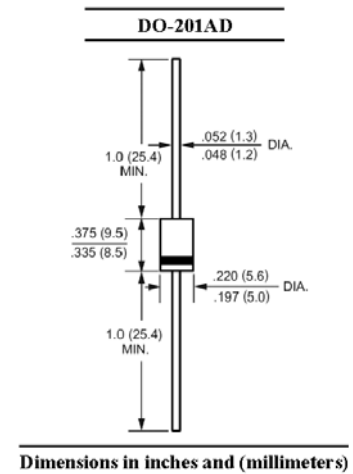
## PLASTIC SILICON RECTIFIERS

### Features

- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

### Mechanical Data

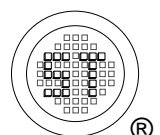
- Case: Molded plastic body, DO-201AD



### Absolute Maximum Ratings and Characteristics

Ratings 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%.

Parameter	Symbols	BY251	BY252	BY253	BY254	BY255	Units
Maximum Repetitive 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	$I_{(AV)}$	3					A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	100					A
Maximum Forward Voltage at 3 A DC	$V_F$	1.1					V
Maximum Reverse Current at $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage at $T_A = 100^{\circ}C$	$I_R$	20 100					$\mu A$
Typical Thermal Resistance to Ambient Air	$R_{\theta JA}$	20					$^{\circ}C/W$
Operating and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 150					$^{\circ}C$



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