

## High Efficiency Rectifier Glass Passivation Junction

 Lead(Pb)-Free

### Features:

- \*Low forward voltage drop
- \*High current capability
- \*High reliability
- \*High surge current capability

### Mechanical Data:

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 1.20 grams

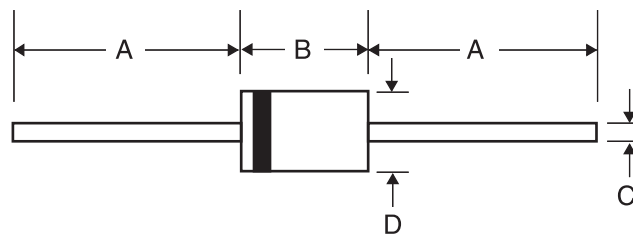
**REVERSE VOLTAGE**  
50-1000 VOLTS  
**FORWARD CURRENT**  
3.0 AMPERE



## DO-201AD Outline Dimensions

Unit:mm

### Axial Device (Through-Hole)



Dim	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
DO-201AD	25.40	-	7.30	9.50	1.20	1.30	4.80	5.60

**Maximum Rating** (TA=25°C Unless Otherwise Noted)

Characteristic	Symbol	HER 301G	HER 302G	HER 303G	HER 304G	HER 305G	HER 306G	HER 307G	Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I <sub>F</sub>	3.0							A
Peak Forward Surge Current, 8.3ms Single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150							A
Maximum Instantaneous Forward Voltage @3.0A	V <sub>F</sub>	1.0		1.3		1.7		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5.0 100							μA
Maximum Reverse Recovery Time	T <sub>rr</sub>	50				75			nS
Typical Junction Capacitance	C <sub>J</sub>	80				50			pF
Typical Thermal Resistance	R <sub>θJA</sub>	70							°C/W
Operating temperature range	T <sub>j</sub>	-55 to +150							°C
Storage temperature range	T <sub>STG</sub>	-55 to +150							°C