Fast Recovery Diode, 3.0A

Features

- Diffused junction
- High efficiency
- Low forward voltage drop
- Low power loss
- High surge current capability

DO-201AD (DO-27)

Mechanical Characteristics

- Case: Molded Plastic
- Cathode indicated by Polarity band
- Mounting position: Any
- Terminals: Finish Tin plated, Solderable per MIL-STD-202, Method 208
- Weight: 0.33 grams (approx.)

Maximum Ratings ($T_A = 25^0C$ unless otherwise specified)			
Parameter	**Symbol**	**BA159**	**Units**
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC blocking voltage	V_{DC}	200	V
Maximum average forward output current @ $T_A = 50^0C$	$I_{F(AV)}$	3.0	A
Peak forward surge current (8.3ms) single half sine-wave superimposed on rated load	I_{FSM}	200	A

Electrical Characteristics ($T_A = 25^0C$ unless otherwise specified)				
Parameters		**Symbol**	**BA159**	**Units**
Maximum DC forward voltage drop @ 3.0A DC		V_F	1.3	V
Maximum DC reverse current @ rated DC blocking voltage	$T_A = 25^0C$	I_R	10	µA
	$T_A = 55^0C$		50	
Maximum reverse recovery time		t_{RR}	500	ns

Thermal and Mechanical Specifications ($T_A = 25^0C$ unless otherwise specified)			
Parameters	**Symbol**	**Values**	**Units**
Typical thermal resistance, junction to ambient	$R_{\theta JA}$	65	$^0C/W$
Operating and Storage temperature range	T_J , T_{Stg}	- 65 to + 150	^0C

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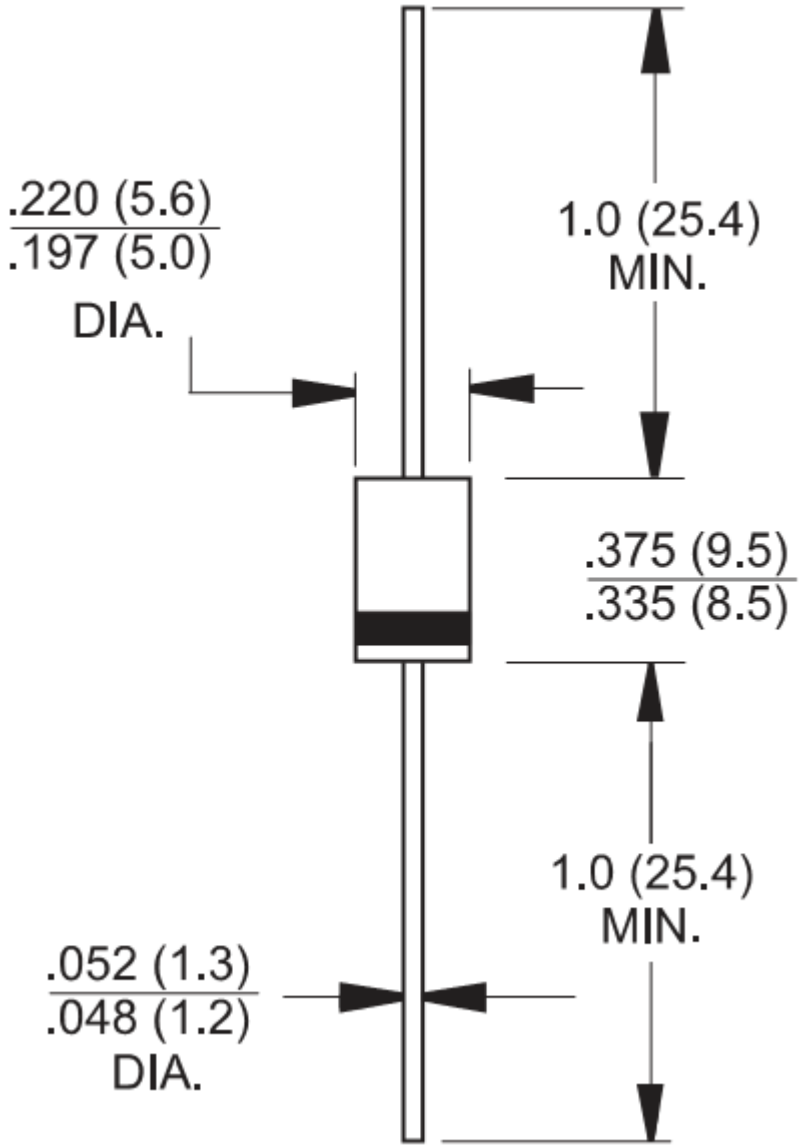

Dimensions in inches and (millimeters)

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