

## BYW95A - BYW96E

**PRV : 200 - 1000 Volts**  
**Io : 3.0 Amperes**

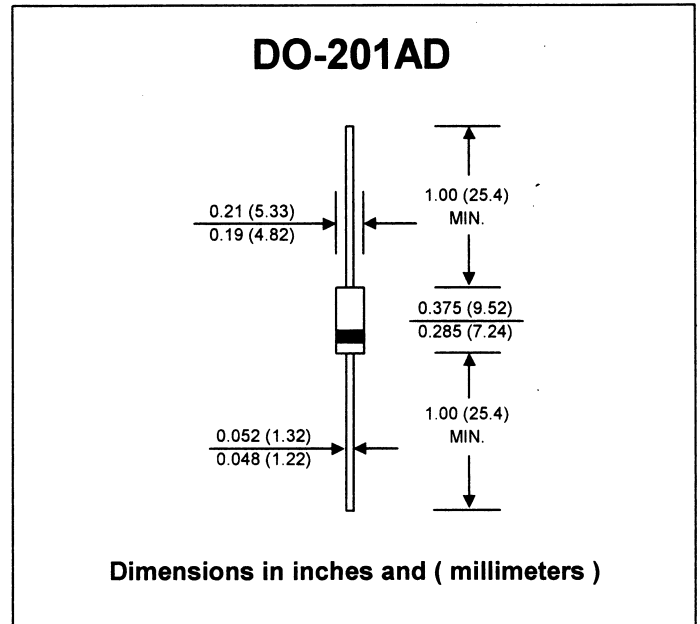
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Fast switching for high efficiency
- \* Pb / RoHS Free

### MECHANICAL DATA :

- \* Case : DO-201AD Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 1.16 grams

## AVALANCHE FAST SOFT-RECOVERY RECTIFIER DIODES



### 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%.

RATING	SYMBOL	BYW 95A	BYW 95B	BYW 95C	BYW 96D	BYW 96E	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum Continuous Reverse Voltage	$V_R$	200	400	600	800	1000	V
Min. Reverse Avalanche Breakdown Voltage @ $I_R = 0.1$ mA	$V_{(BR)R-min}$	300	500	700	900	1100	V
Maximum Average Forward Current $T_p = 60$ °C (Note 1)	$I_{F(AV)}$	3.0					A
Maximum Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	70					A
Maximum Repetitive Peak Forward Current	$I_{FRM}$	15					A
Maximum Forward Voltage at $I_F = 5.0$ Amps.	$V_F$	1.5					V
Maximum Reverse Current at Reverse Voltage	$I_R$	5.0					$\mu A$
Maximum Reverse Current at Reverse Voltage $T_j = 165$ °C	$I_{R(H)}$	150					$\mu A$
Maximum Reverse Recovery Time (Note 2)	$T_{rr}$	250			300		ns
Thermal Resistance - Junction to Ambient	$R_{\theta JA}$	75					K / W
Junction Temperature Range	$T_J$	- 65 to + 175					°C
Storage Temperature Range	$T_{STG}$	- 65 to + 175					°C

