

BYW95A - BYW96E

PRV : 200 - 1000 Volts
Io : 3.0 Amperes

FEATURES :

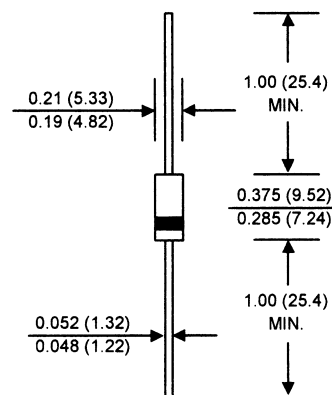
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * Pb / RoHS Free

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

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%.

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 _{tp} = 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					μA
Maximum Reverse Current at Reverse Voltage T _j = 165 °C	I _{R(H)}	150					μA
Maximum Reverse Recovery Time (Note 2)	T _{rr}	250			300		ns
Thermal Resistance - Junction to Ambient	RθJA	75					K / W
Junction Temperature Range	T _J	- 65 to + 175					°C
Storage Temperature Range	T _{STG}	- 65 to + 175					°C

