New Jersey Semi-Conductor Products, Inc.

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BYW95A - BYW96E

AVALANCHE FAST SOFT-RECOVERY RECTIFIER DIODES

PRV : 200 - 1000 Volts
Io : 3.0 Amperes

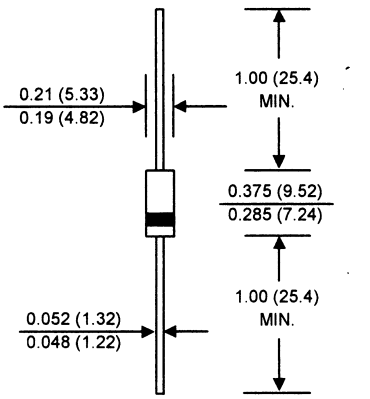
FEATURES :

* 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

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 Tj = 165 °C	$I_{R(H)}$	150					µA
Maximum Reverse Recovery Time (Note 2)	Trr	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