

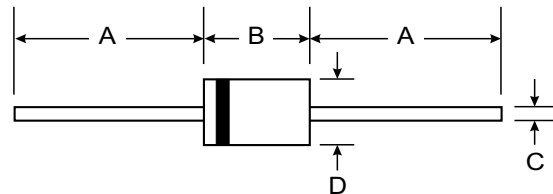
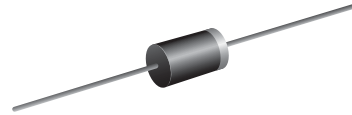
VOLTAGE RANGE: 200- 1000V
CURRENT: 3.0 A

Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Fast switching for high efficiency

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		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

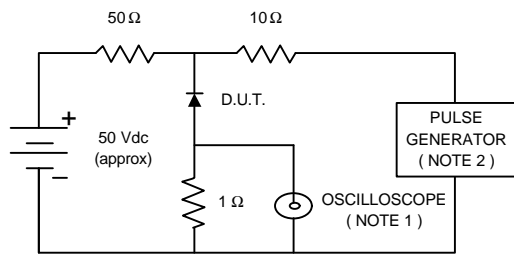
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	BYW95A	BYW95B	BYW95C	BYW96D	BYW96E	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 <small>T_p = 60 °C (Note 1)</small>	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 <small>T_j = 165 °C</small>	I _{R(H)}	150					μA
Maximum Reverse Recovery Time (Note 2)	T _{rr}	250			300		ns
Thermal Resistance - Junction to Ambient	R _{θJA}	75					K / W
Junction Temperature Range	T _J	- 65 to + 175					°C
Storage Temperature Range	T _{STG}	- 65 to + 175					°C

Notes :

- (1) Lead Length 10 mm.
- (2) Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES : 1. Rise Time = 7 ns max., Input Impedance = 1 megaohm, 22 pF.
 2. Rise time = 10 ns max., Source Impedance = 50 ohms.
 3. All Resistors = Non-inductive Types.

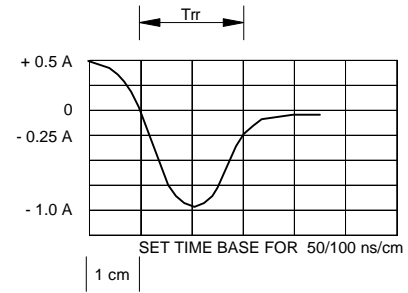


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

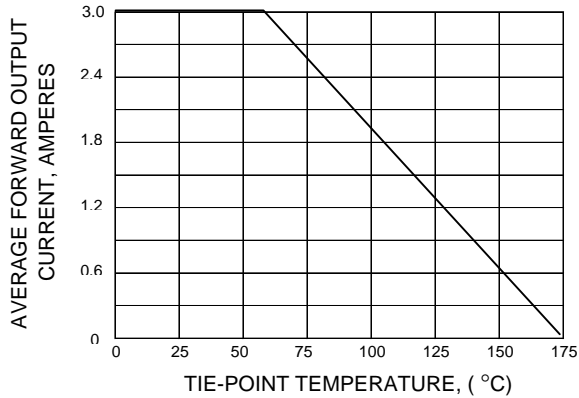


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

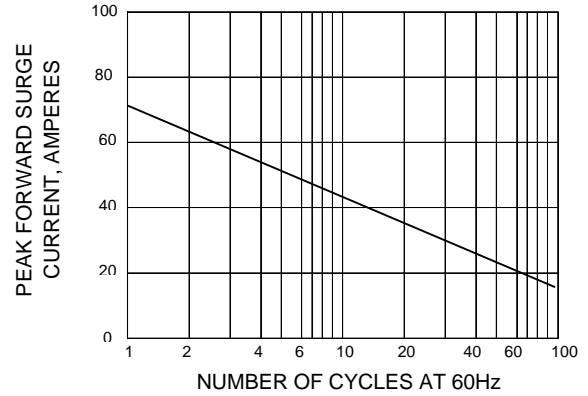


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

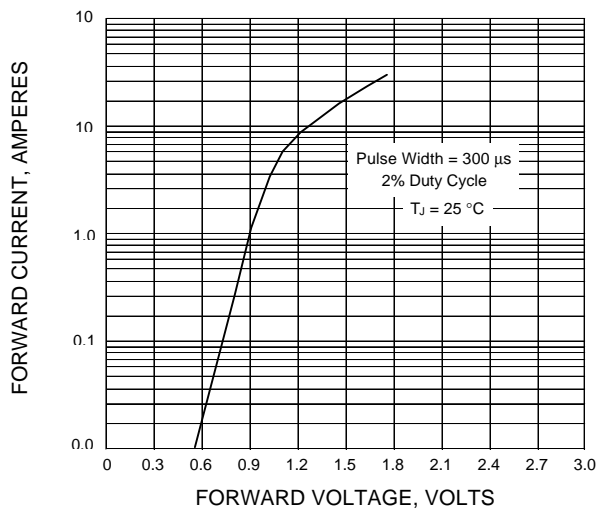


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

