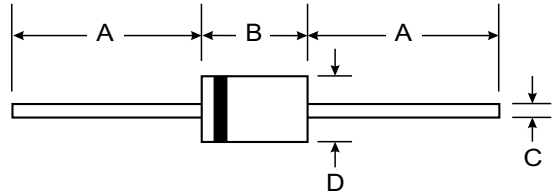


Features

- Glass passivated junction
- Low reverse current
- Soft recovery characteristics
- Very fast reverse recovery time
- Low reverse recovery peak current



Mechanical Data

- Case: DO-201AD sintered glass case
- Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- Polarity: color band denotes cathode end
- Mounting position: any

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		

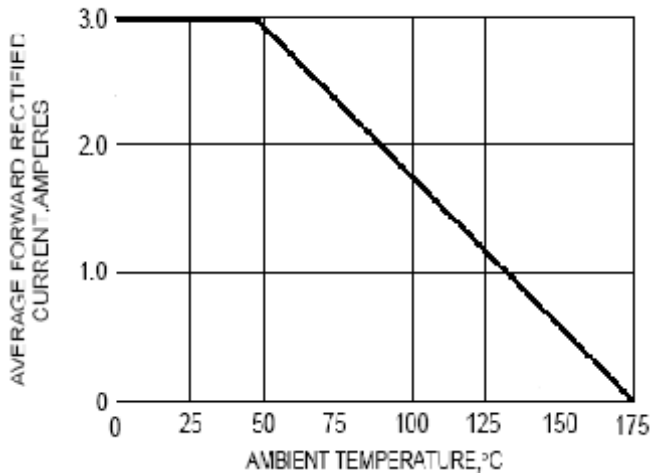
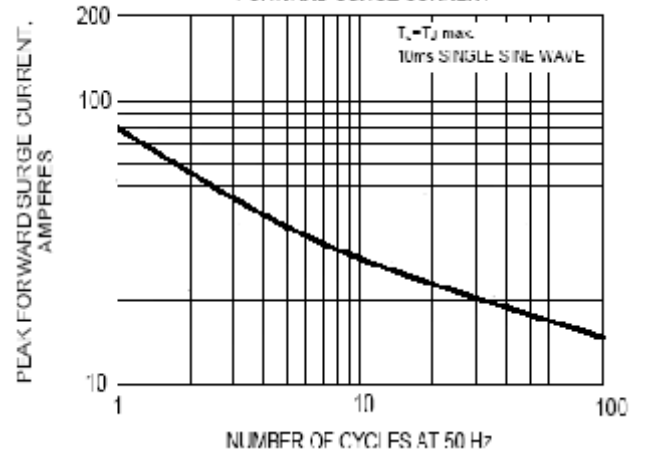
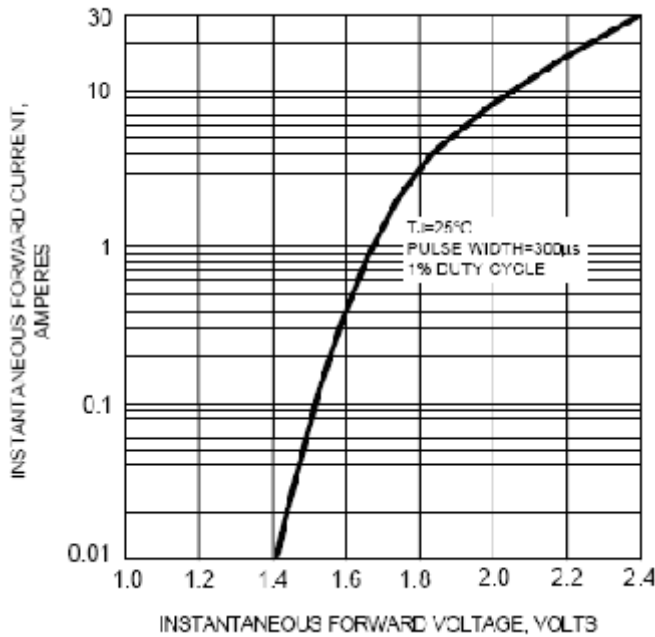
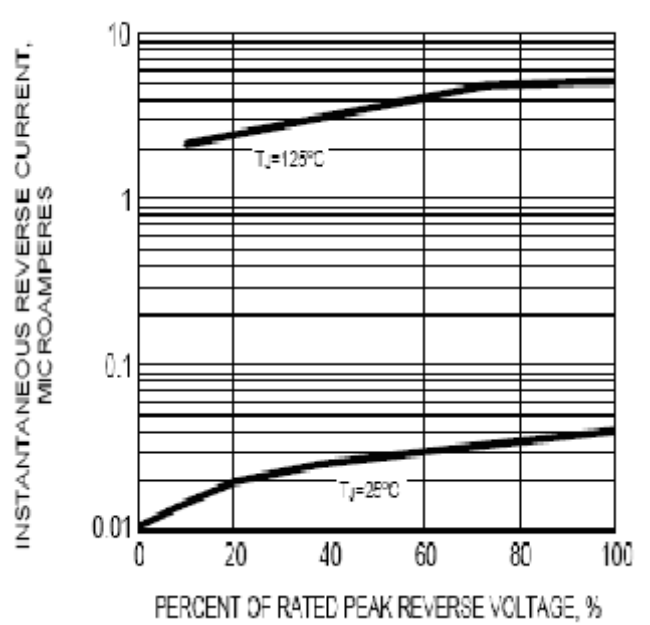
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

	SYMBOL	BYW178	units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	800	V
Maximum RMS Voltage	V _{RMS}	560	V
Maximum DC blocking Voltage	V _{DC}	800	V
Reverse Breakdown Voltage at I _R = 0.1mA	V _{(BR)R}	1100min	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3.0	A
Peak Forward Surge Current at t _p = 10ms half sinewave	I _{FSM}	80	A
Maximum Forward Voltage at rated Forward Current and 25°C	V _F	1.90	V
Maximum DC Reverse Current at rated DC blocking voltage	I _R	1.0 20	μA μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50	nS
Typical Thermal Resistance (Note 2)	R _{th(ja)}	70	K/W
Storage and Operating Junction Temperature	T _{stg} , T _j	-55 to +175	°C

Note:

1. Reverse Recovery Condition I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A
2. on PC board with spacing 37.5mm

FIG. 1 - FORWARD CURRENT DERATING CURVE

FIG. 2 - MAXIMUM NON-REPEITIVE PEAK FORWARD SURGE CURRENT

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

FIG. 5 - TYPICAL JUNCTION CAPACITANCE
