

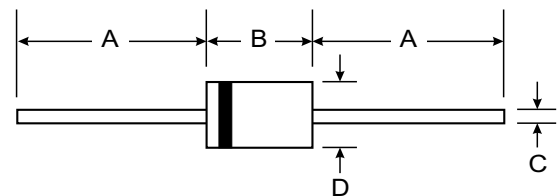
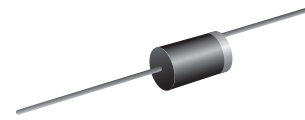
VOLTAGE RANGE: 200 - 600V
CURRENT: 3.0 A

Features

- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

Mechanical Data

- Case: DO-201AD, molded plastic
- Terminals: Axial lead, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.041 ounces, 1.15 grams
- 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. For capacitive load, derate current by 20%.

Characteristic	Symbol	BYW72	BYW73	BYW74	BYW75	BYW76	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	200	300	400	500	600	V
Maximum RMS voltage	V_{RMS}	140	210	280	350	420	V
Maximum DC blocking voltage	V_{DC}	200	300	400	500	600	V
Maximum average forward rectified current 9.5mm lead length, @T _A =75°C	$I_{F(AV)}$	3.0					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I_{FSM}	200.0					A
Maximum instantaneous forward voltage @ 3.0 A	V_F	1.1					V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I_R	10.0 100.0					μA
Maximum reverse recovery time (Note1)	t_{rr}	200					ns
Typical junction capacitance (Note2)	C_J	32					pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	22					°C/W
Operating junction temperature range	T_J	-55----+150					°C
Storage temperature range	T_{STG}	-55----+150					°C

NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

FIG.1 -MAX, THERMAL RESISTANCE VS.LEAD LENGTH

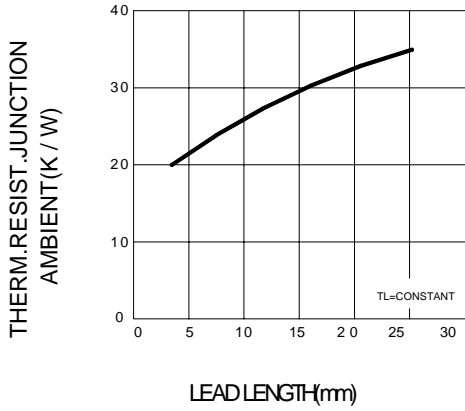


FIG.3 -FORWARD DERATING CURVE

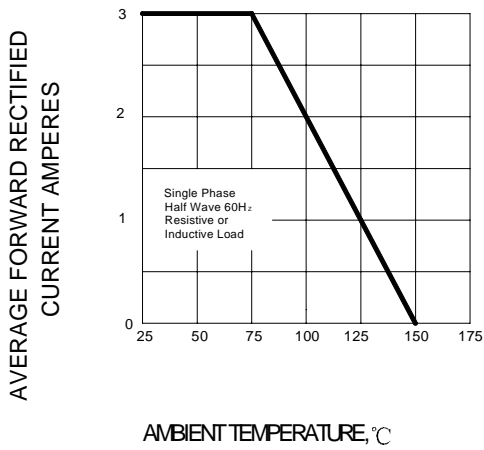


FIG.5- MAX.REVERSE POWER DISSIPATION VS. JUNCTION TEMPERATURE

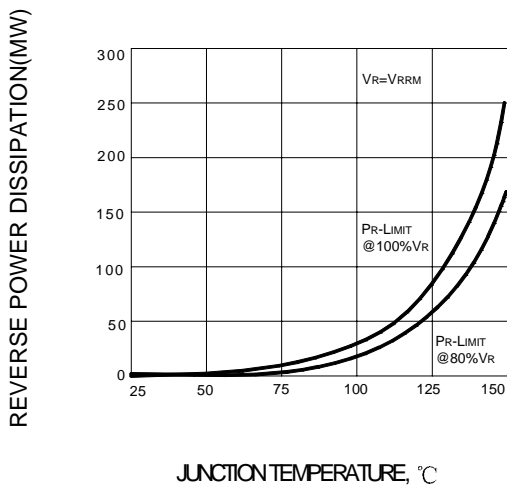


FIG.2 -TYPICAL FORWARD CHARACTERISTIC

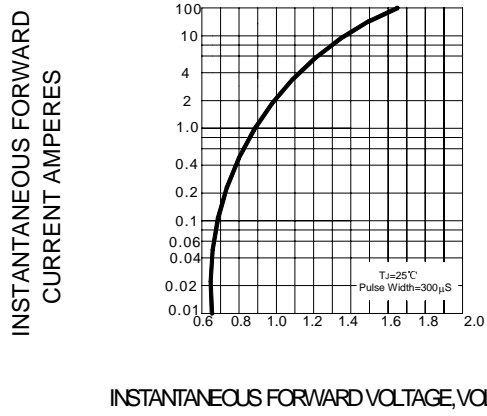


FIG.4-PEAK FORWARD SURGE CURRENT

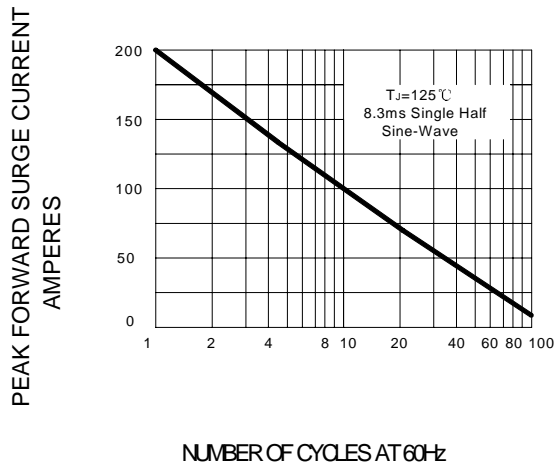


FIG.6-TYPICAL JUNCTION CAPACITANCE

