

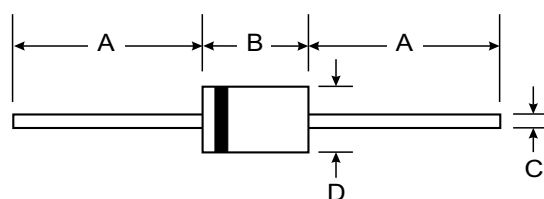
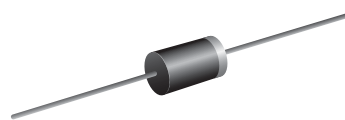
**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 3.0 A**

### 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
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



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<sub>A</sub> = 25°C unless otherwise specified

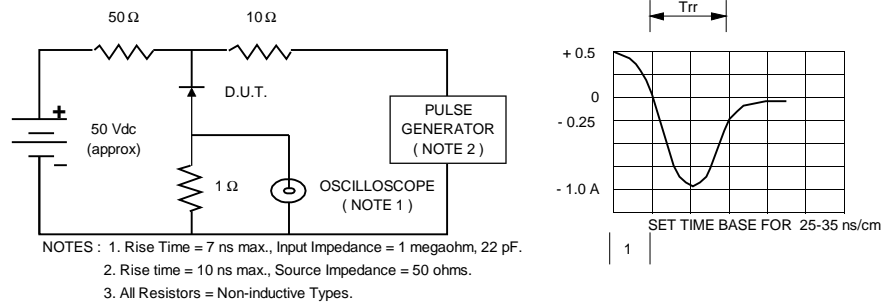
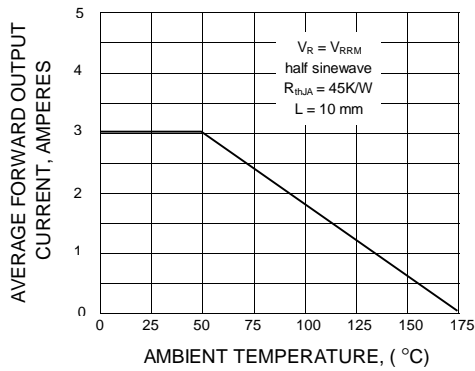
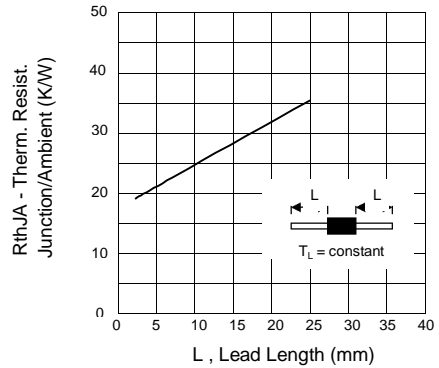
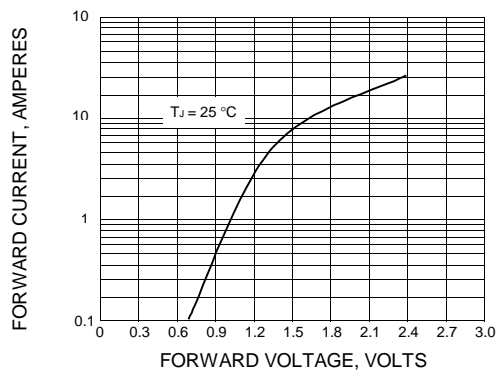
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	BYT56A	BYT56B	BYT56D	BYT56G	BYT56J	BYT56K	BYT56M	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	3.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T <sub>J</sub> =125°C	I <sub>FSM</sub>	150.0							A
Maximum instantaneous forward voltage @ 3.0A	V <sub>F</sub>	1.4							V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	10.0 150.0							μA
Maximum reverse recovery time (Note1)	t <sub>rr</sub>	100							ns
Typical junction capacitance (Note2)	C <sub>J</sub>	75				50			pF
Typical thermal resistance (Note3)	R <sub>θJA</sub>	30							°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 ---- + 150							°C
Storage temperature range	T <sub>STG</sub>	- 55 ---- + 150							°C

NOTE: 1. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.

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

3. Thermal resistance from junction to ambient.

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

**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**

**FIG.3 - MAXIMUM THERMAL RESISTANCE vs. LEAD LENGTH**

**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**

**FIG.5 - REVERSE CURRENT vs. JUNCTION TEMPERATURE**
