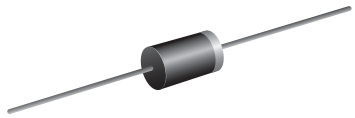
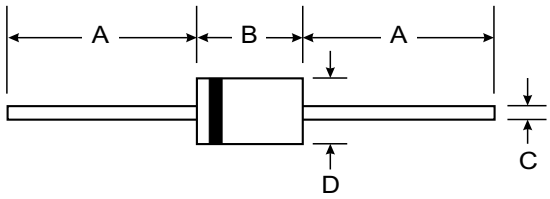
BYT13-600 - BYT13-1000

HIGH EFFICIENCY RECTIFIER DIODES

VOLTAGE RANGE: 600 - 1000V
CURRENT: 3.0 A





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		

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

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

RoHS COMPLIANT

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	BYT13-600	BYT13-800	BYT13-1000	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	420	560	700	V
Average Rectified Output Current (Note 1) @T_A = 55°C	I_O	3.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150			A
Forward Voltage @I_F = 3.0A	V_{FM}	1.3			V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	10.0 100			μA
Reverse Recovery Time (Note 2)	t_{rr}	50		75	nS
Typical Junction Capacitance (Note 3)	C_j	80		50	pF
Operating Temperature Range	T_j	-65 to +125			°C
Storage Temperature Range	T_{STG}	-65 to +150			°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.