



# 3.0A HIGH VOLTAGE STANDARD DIODE

#### **Features**

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

# 

# DO-201AD Dim Min Max A 25.4 — B 7.20 9.50 C 1.20 1.30 D 4.80 5.30

All Dimensions in mm

#### **Mechanical Data**

Case: DO-201AD, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band
 Wainhty 4.2 areas (and

• Weight: 1.2 grams (approx.)

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

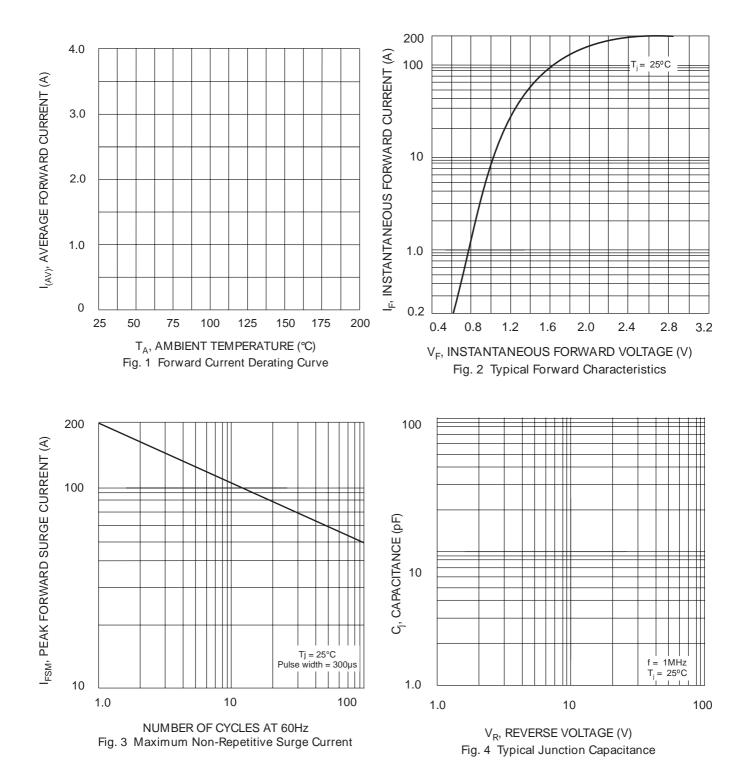
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	BY255	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	1300	V
RMS Reverse Voltage	VR(RMS)	910	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 75°C	lo	3.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200	А
Forward Voltage @I <sub>F</sub> = 3.0A	VFM	1.0	V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	lгм	5.0 100	μΑ
Typical Junction Capacitance (Note 2)	Cj	50	pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}$ JA	20	°C/W
Operating Temperature Range	Tj	-65 to +125	°C
Storage Temperature Range	Тѕтс	-65 to +150	°C

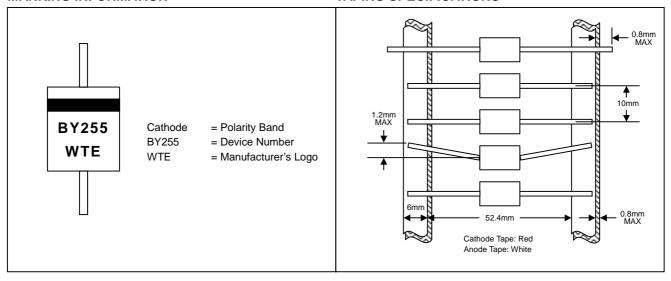
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

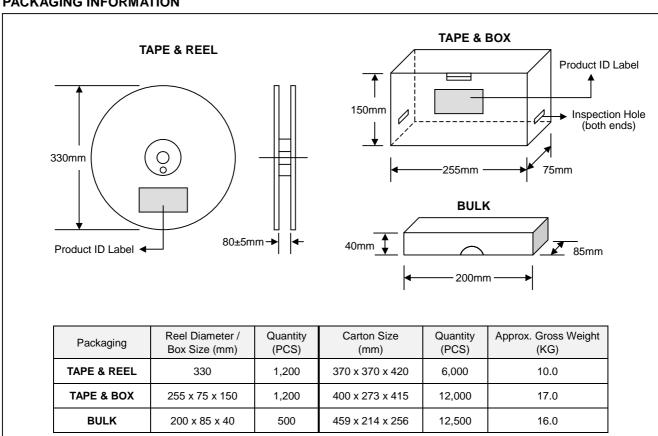


## **MARKING INFORMATION**

## **TAPING SPECIFICATIONS**



# **PACKAGING INFORMATION**



Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with  $\dot{\text{EIA}}$  standard RS-296-E.

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity	
BY255-T3	DO-201AD	1200/Tape & Reel	
BY255-TB	DO-201AD	1200/Tape & Box	
BY255	DO-201AD	500 Units/Box	

- Products listed in **bold** are WTE **Preferred** devices.
- 1. 2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" 3. suffix to part number above. For example, BY255-TB-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**WARNING**: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.