

## 1.0A HIGH VOLTAGE STANDARD DIODE



### **Features**

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

# 

# Mechanical Data

Case: DO-41, Molded Plastic

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

Polarity: Cathode BandWeight: 0.35 grams (approx.)

Mounting Position: AnyMarking: Type Number

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

DO-41				
Dim	Min	Max		
Α	25.4	_		
В	4.06	5.21		
С	0.71	0.864		
D	2.00	2.72		
All Dimensions in mm				

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

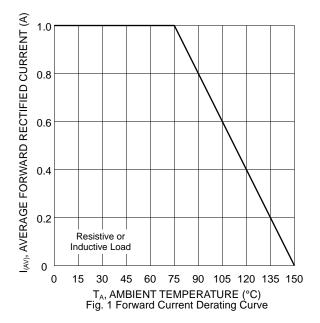
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

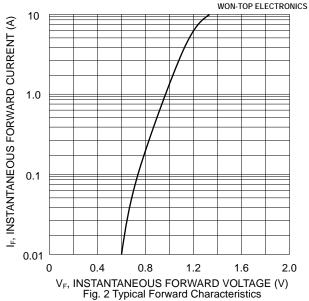
Characteristic	Symbol	BY133	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	1300	V
RMS Reverse Voltage	VR(RMS)	910	V
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 75°C	lo	1.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	30	А
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	1.0	V
	IRM	5.0 50	μA
Typical Junction Capacitance (Note 2)	Cı	15	pF
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)	R JA R JL	50 25	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150	°C

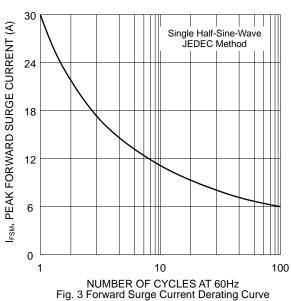
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

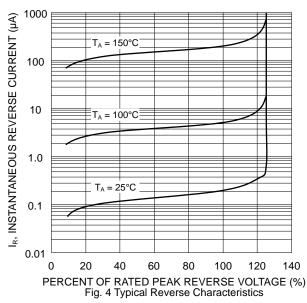
2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.











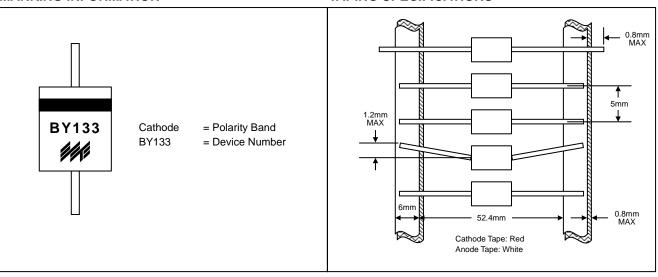
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C<sub>J</sub>, JUNCTION CAPACITANCE (pF) = 1MHz 20 15 10 5 0 0.1 100 10 V<sub>R</sub>, DC REVERSE VOLTAGE (V)

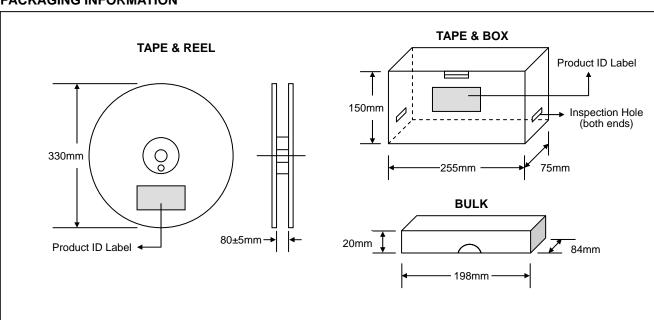


## **MARKING INFORMATION**

## TAPING SPECIFICATIONS



### **PACKAGING INFORMATION**



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	5,000	370 x 370 x 420	25,000	13.0
TAPE & BOX	255 x 75 x 150	5,000	400 x 273 x 415	50,000	21.0
BULK	198 x 84 x 20	1,000	459 x 214 x 256	50,000	19.5

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
2. Components are packed in accordance with EIA standard RS-296-E.



### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity	
BY133-T3	DO-41	5000/Tape & Reel	
ВҮ133-ТВ	DO-41	5000/Tape & Box	
BY133	DO-41	1000 Units/Box	

- Products listed in **bold** are WTE **Preferred** devices. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. 2.
- 3. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, BY133-TB-LF.

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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.

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