



1.0A HIGH VOLTAGE STANDARD DIODE

Features

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

A B A C C C

Mechanical Data

- Case: DO-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: 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 @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	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 _A = 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 _F = 1.0A	VFM	1.0	V
	lгм	5.0 50	μΑ
Typical Junction Capacitance (Note 2)	Cj	15	pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{ heta}JA$	50	°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.

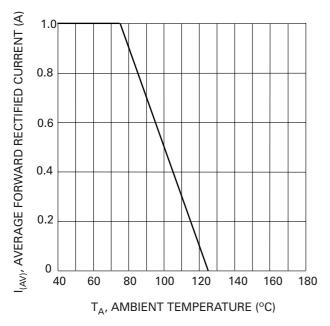
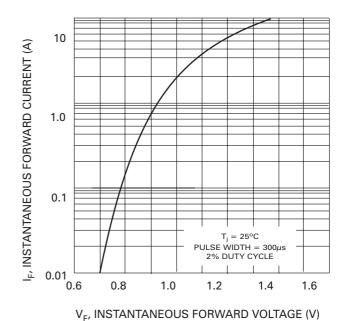


Fig. 1 Forward Current Derating Curve



VF, INSTANTANEOUS FORWARD VOLIAGE (V

Fig. 2 Typical Forward Characteristics

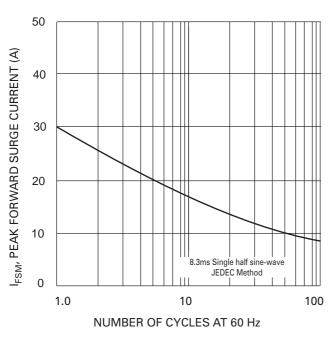


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

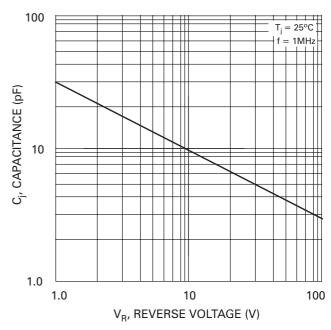
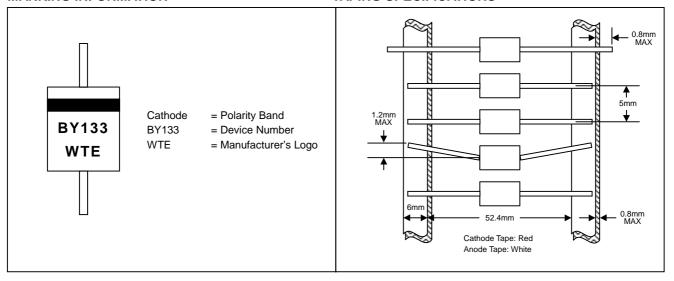


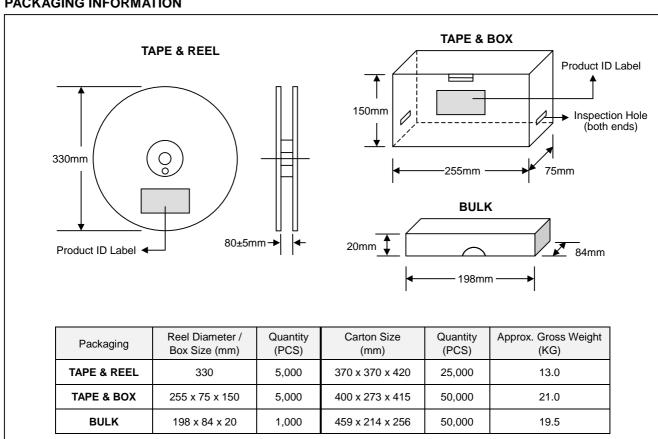
Fig. 4 Typical Junction Capacitance

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
BY133-T3	DO-41	5000/Tape & Reel
BY133-TB	DO-41	5000/Tape & Box
BY133	DO-41	1000 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" suffix 3. 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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