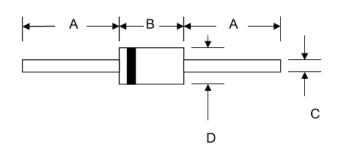


Technical Data Data Sheet N0551, Rev. A Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



DO-41

Max

_

5.21

0.864

2.72

Min

1.000

0.159

0.028

0.079

In inch

Min

25.4

4.06

0.71

2.00

In mm

Dim

А

в

С

D

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Part Name, SSG and Date Code

Marking Diagram:



BY133 = Part Name

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
BY133	DO-41	5000mag/tama
DT133	(Pb-Free)	5000pcs/tape

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



Max

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0.205

0.034

0.107

BY133



Technical Data Data Sheet N0551, Rev. A

Green Products

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 _A = 75°C	lo	1.0	А
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
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	5.0 50	μΑ
Typical Junction Capacitance (Note 2)	Cj	15	pF
Typical Thermal Resistance Junction to Ambient (Note 1)	RθJA	50	K/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

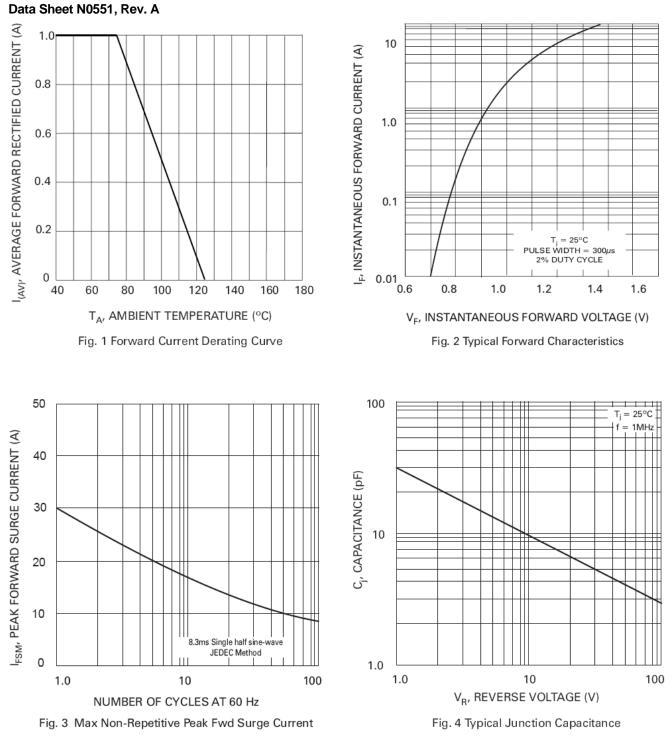
2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.



Technical Data

BY133 1.0 SILICON RECTIFIER

Green Products



China - Germany - Korea - Singapore - United States http://www.smc-diodes.com - sales@ smc-diodes.com -



Technical Data Data Sheet N0551, Rev. A

BY133 1.0 SILICON RECTIFIER

Green Products

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