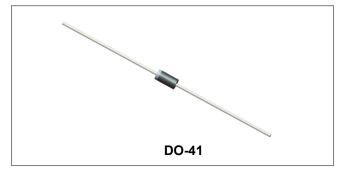


BY133

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BY133 1.0 SILICON RECTIFIER



Circuit Diagram



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

Mechanical Data

- Case: molded plastic
- Terminals: Plated leads, solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Mounting Position: Any
- Weight:0.34 grams(approx)

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%.

Type Number	Symbol	BY133	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	1300	V
RMS Reverse Voltage	V _{RMS}	910	V
Average forward rectified output current $@T_A = 75^{\circ}C$	lo	1.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30	A
Forward Voltage @I _F =1.0A	V _{FM}	1.0	V
Peak Reverse Current@TA = 25°CAt Rated DC Blocking Voltage@TA = 100°C	I _{RM}	5.0 50	μA
Typical Junction Capacitance (Note 2)	CJ	15	pF
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	50	°C/W
Operating Junction Temperature Range	TJ	-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 at 1MHz and applied reverse voltage of 4.0V D.C.

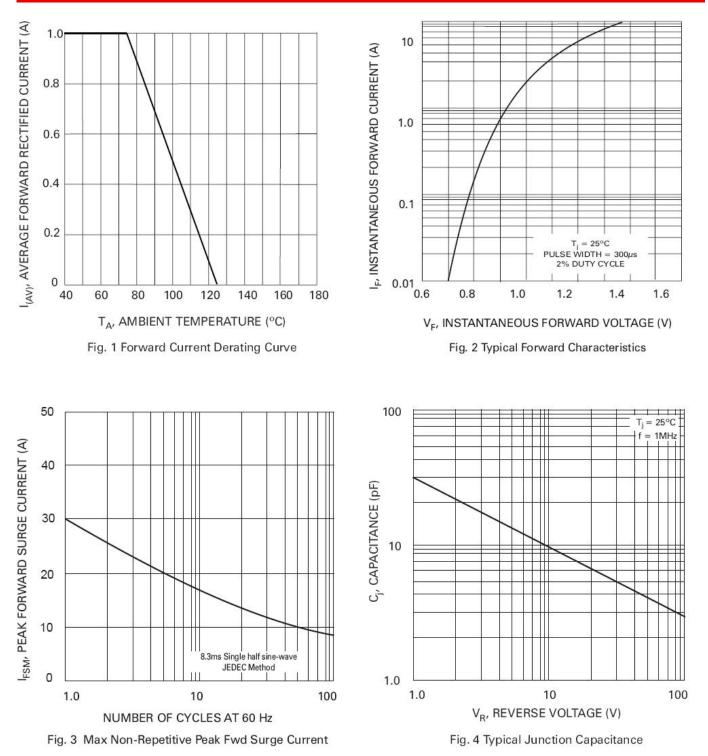
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Ratings and Characteristics Curves



Po

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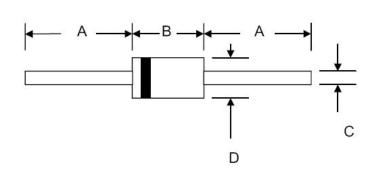


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Mechanical Dimensions DO-41



SYMBOL	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.4	-	1.000	-
В	4.06	5.21	0.160	0.205
С	0.71	0.864	0.028	0.034
D	2.00	2.72	0.079	0.107

Ordering Information

Device	Package	Shipping
BY133	DO-41 (Pb-Free)	5000pcs / reel

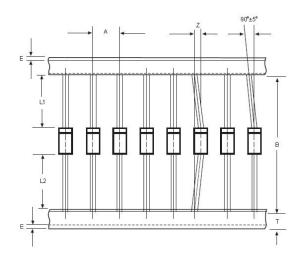
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



BY133 = Part Name

Carrier Tape Specification DO-41



SYMBOL	Millimeters		
	Min.	Max.	
A	4.50	5.50	
В	50.9	53.9	
Z	-	1.20	
Т	5.60	6.40	
E	-	0.80	
IL1-L2I	-	1.0	



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