



1.0A SCHOTTKY BARRIER DIODE



Features

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 25A Peak
- Low Power Loss, High Efficiency
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: DO-41, Molded Plastic

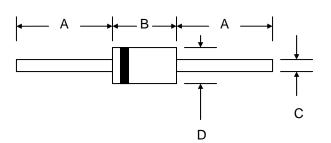
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.35 grams (approx.)

Mounting Position: 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%.

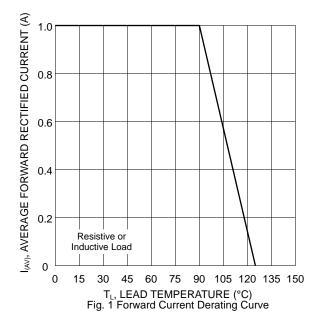
Characteristic	Symbol	1N5817	1N5818	1N5819	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	٧
Average Rectified Output Current (Note 1) @T _L = 90°C	lo		1.0		Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM		25		А
Forward Voltage $@I_F = 1.0A$ $@I_F = 3.0A$	VFM	0.450 0.750	0.550 0.875	0.600 0.900	V
	Irm		1.0 10		mA
Typical Junction Capacitance (Note 2)	Cı	110		pF	
Thermal Resistance, Junction to Ambient (Note 3) Thermal Resistance, Junction to Lead (Note 3)	R JA R JL	50 15		°C/W	
Operating Temperature Range	TJ	-65 to +125		°C	
Storage Temperature Range	Тѕтс		-65 to +150		°C

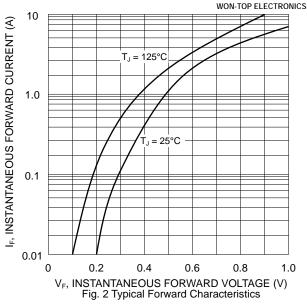
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

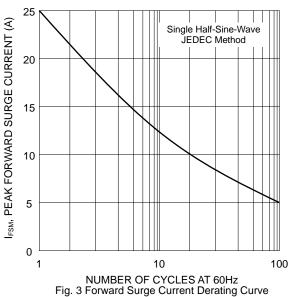
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Vertical PCB mounting with 9.5mm lead length on 38 x 38mm copper pad.

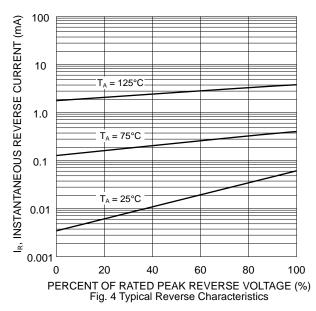
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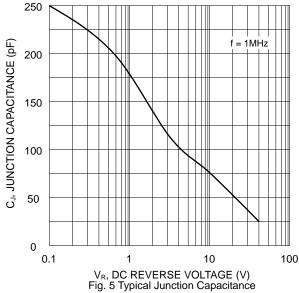








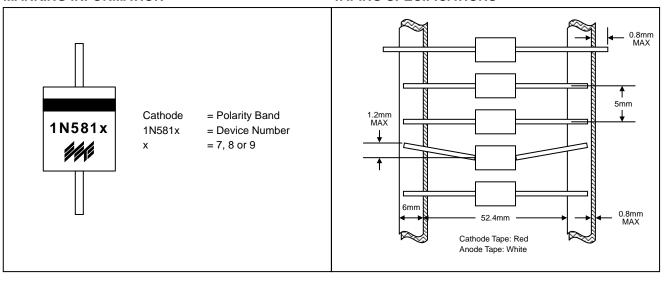




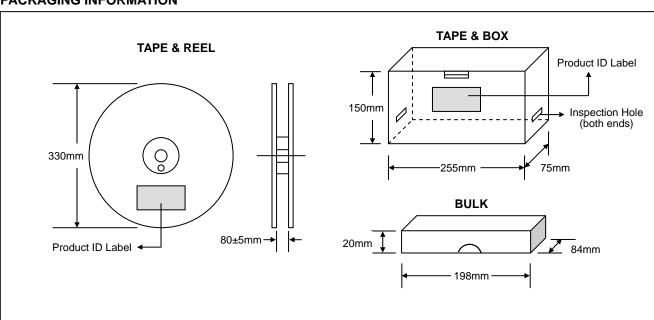


MARKING INFORMATION

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
1N581x-T3	DO-41	5000/Tape & Reel
1N581x-TB	DO-41	5000/Tape & Box
1N581x	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.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1N5817-TB-LF. 3.

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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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