

SINLOON®

肖特基二極管
Case: DO-41

IN5817 - 1N5819
1.0A Schottky Barrier Diode

Feature

- ◆ Schottky Barrier Chip
- ◆ Guard Ring Die Construction for Transient Protection
- ◆ High Current Capability
- ◆ Low Power Loss, High Efficiency
- ◆ High Surge Current Capability
- ◆ For Use un Low Voltage, High Frequency Inverters, Free Wheeling and Polarity Protection Applications.

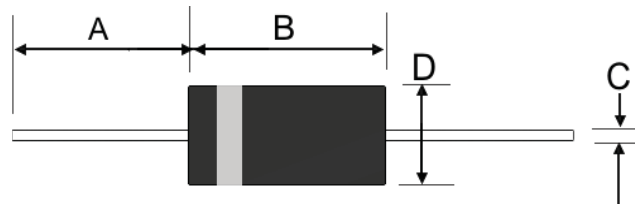
Mechanical Data

- ◆ Case: DO-41 Moldes Plastic
- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ◆ Polarity: Cathode Band.
- ◆ Weight: 0.34 grams (approx)
- ◆ Mounting Position: Any
- ◆ Mounting : Type Number
- ◆ Lead Free: For **RoHS** / Lead Free Version Add "-LF" Suffix to part Number.

Dimension

Case: DO-41 (mm)

Dim	Min	Max
A	25.4	---
B	4.06	5.21
C	0.71	0.864
D	2.0	2.72



Figure



Marking Information

- Cathode = Device Number
- IN581x = Device Number
- x = 7, 8, 9.
- Polarity = As Marked Body



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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%.

Characteristics		Symbol	IN5817	IN5818	IN5819	Unit
Peak Repetitive Reverse Voltage		V _{RRM}				V
Working Peak Reverse Voltage		V _{RWM}	20	30	40	
DC Blocking Voltage		V _R				
RMS Reverse Voltage		V _{R(RMS)}	14	21	28	V
Average Rectified Output Current @T _C =95°C (Note		I _O	1.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	25			A
Forward Voltage	@I _F =1.0A	V _{FM}	0.45	0.55	0.6	V
	@I _F =3.0A		0.75	0.875	0.9	
Peak Reverse Current @T _A = 25°C		I _{RM}	1.0			mA
At Rated DC Blocking Voltage @T _A =100°C			10			
Typical Junction Capacitance (Note 2)		C _j	110			pF
Typical Thermal Resistance Junction to Lead (Note 1)		R _{θJL}	15.0			°C/W
Operating and Storage Temperature Range		T _j , T _{STG}	-65 to +150			°C

Note 1: Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

Note 2: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

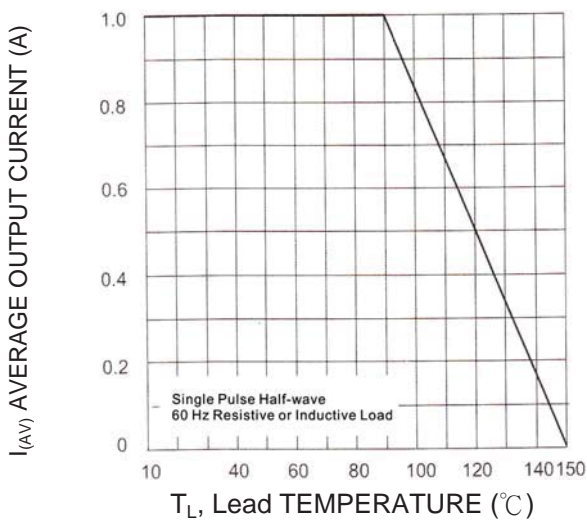


Fig-1 Forward and Current Derating Curve

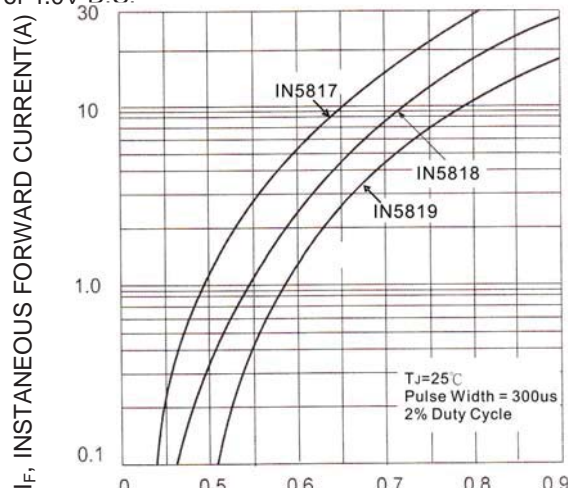


Fig-2 Typical Forward Voltage Characteristics

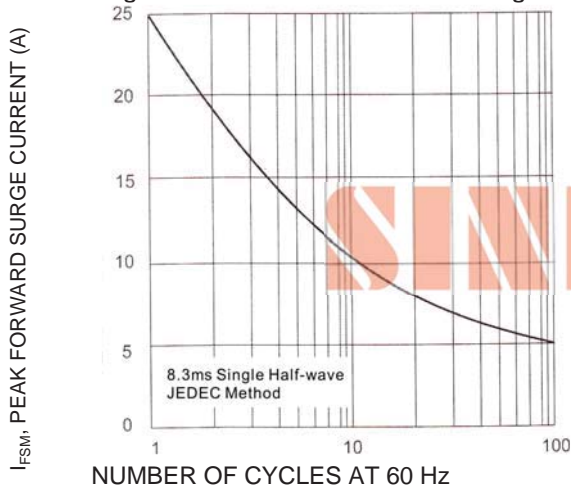


Fig-3 Peak Forward Surge Current

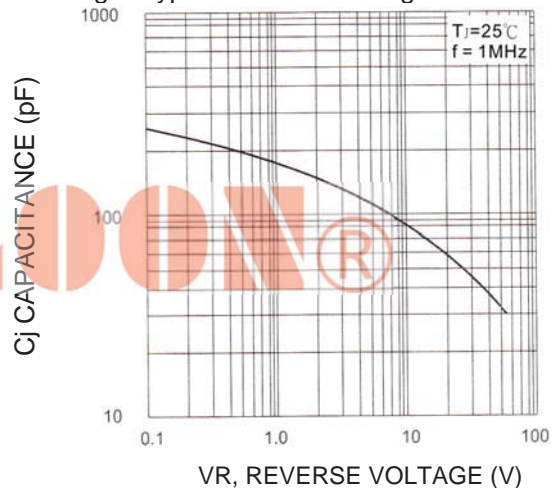


Fig-4 Typical Junction Capacitance

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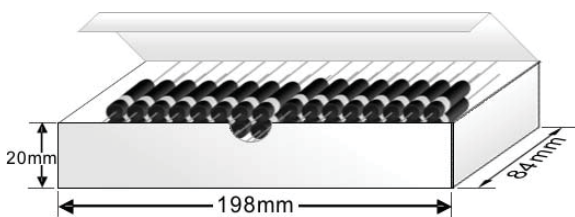
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Packaging Information

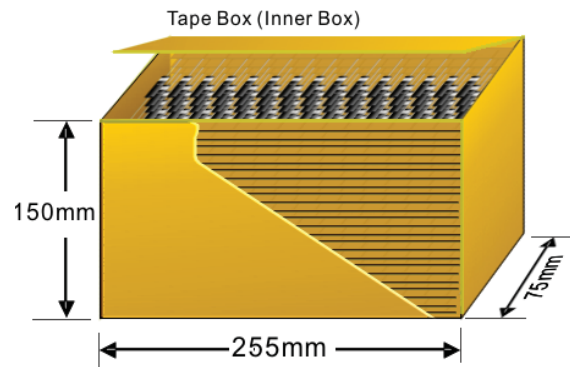
Package	Reel Diameter Box Size	Quantity (Pcs)	Carton Size LxWxH (mm)	Quantity (Pcs)	Gross Weight
Tape & Reel	330	5000	370x370x420	25000	13
Tape & Box	255x75x150	5000	400x273x415	50000	21
Bulk	198x84x20	1000	459x214x256	50000	19.5

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

Bulk



Tape & Box



Tape Reel



330mm X 80mm

Carton:



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※Mayloon characteristic parameters of electronic product specification changes or updates without notice to improve .

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