

SINLOON®

肖特基二極管
Case: DO-201AD

SD1030 - SD1045
10A 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.

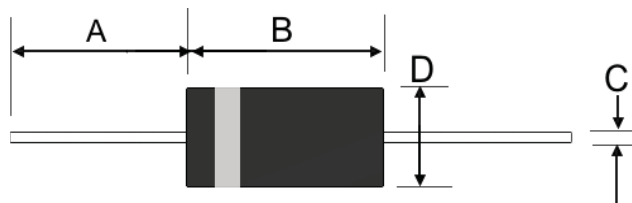
Mechanical Data

- ◆ Case: DO-210AD Moldes Plastic
- ◆ Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- ◆ Polarity: Cathode Band.
- ◆ Weight: 1.2 grams (approx)
- ◆ Mounting Position: Any
- ◆ Mounting : Type Number
- ◆ Lead Free: For **RoHS** / Lead Free Version Add "-LF" Suffix to part Number.

Dimension

Case: DO-201AD (mm)

Dim	Min	Max
A	25.4	---
B	7.2	9.5
C	1.2	1.3
D	4.8	5.3



Marking Information

- Cathode = Device Number
- SD10xx = Device Number
- xx = 30, 35, 40, 45.
- Polarity = As Marked Body



Figure



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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	SD 1030	SD 1035	SD 1040	SD 1045	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	35	40	45	V
Working Peak Reverse Voltage	V _{RWM}					
DC Blocking Voltage	V _R					
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	V
Average Rectified Output Current @T _C =95°C (Note 1)	I _O	10				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	340				A
Forward Voltage @I _F =5.0A	V _{FM}	0.55				V
Peak Reverse Current @T _A = 25°C	I _{RM}	0.5				mA
At Rated DC Blocking Vol. @T _A =100°C		50				
Typical Junction Capacitance (Note 2)	C _j	700				pF
Typical Thermal Resistance (Note 1)	R _{θJL}	8.0				°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.

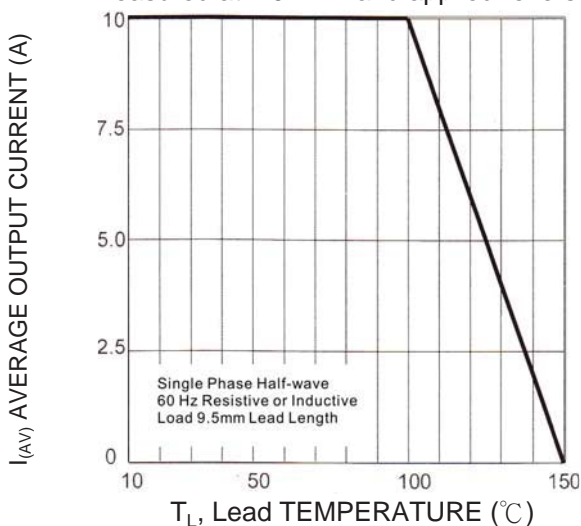


Fig-1 Forward and Current Derating Curve

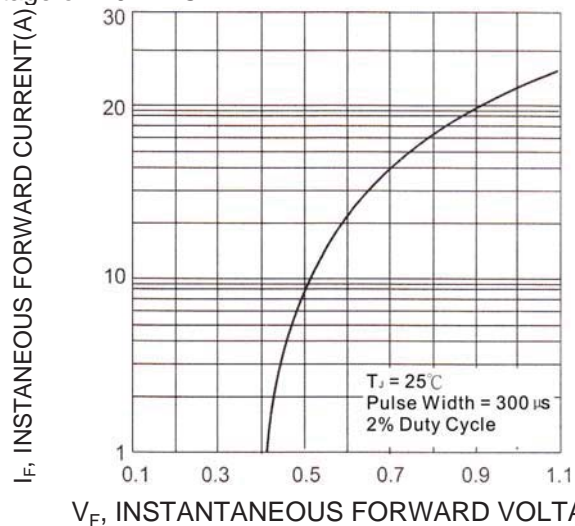


Fig-2 Typical Forward Voltage Characteristics

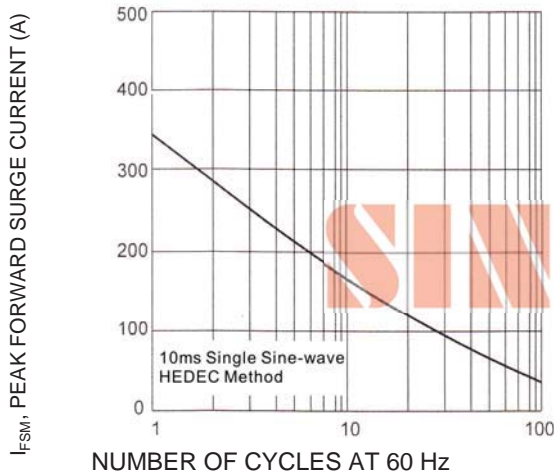


Fig-3 Peak Forward Surge Current

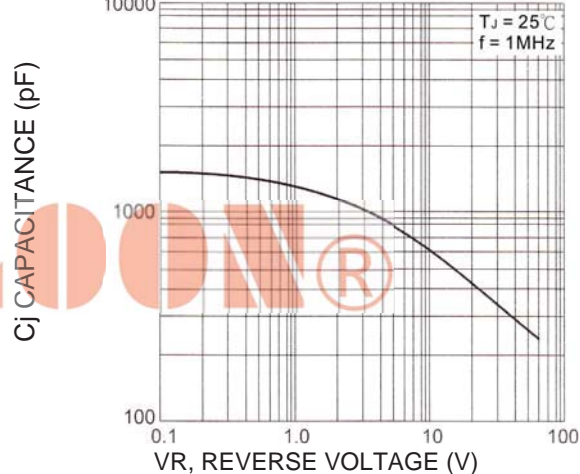


Fig-4 Typical Junction Capacitance

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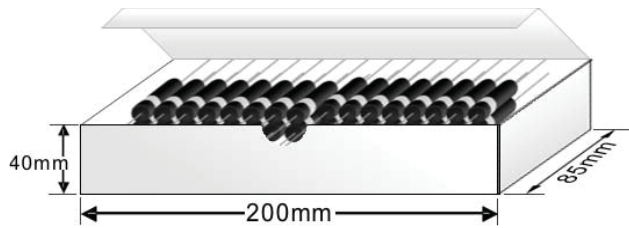
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Packaging Information

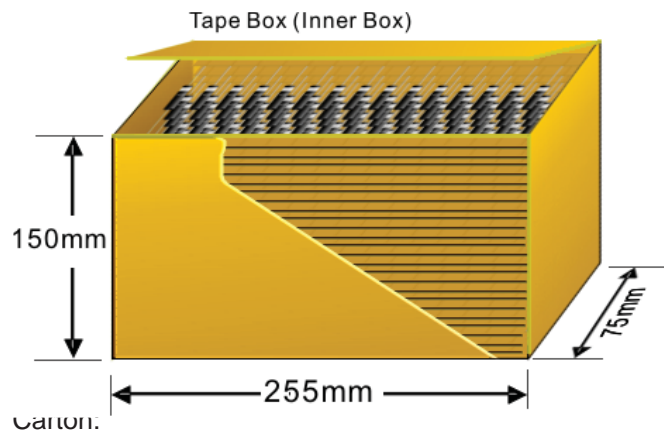
Package	Reel Diameter Box Size	Quantity (Pcs)	Carton Size LxWxH (mm)	Quantity (Pcs)	Gross Weight
Tape & Reel	330	1200	370x370x420	6000	10 kg
Tape & Box	255x75x150	1200	400x273x415	12000	17 kg
Bulk	200x85x40	500	459x214x256	12500	16 kg

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



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

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