

SD1030 - SD1045

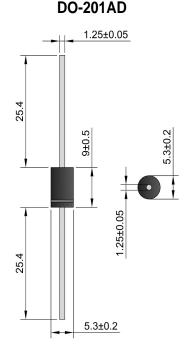
10A SCHOTTKY BARRIER DIODE

Features

- Schottky Barrier Chip
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 180A Peak
- Low Power Loss, High Efficiency
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



Maximum Ratings and Electrical Characteristics @T_=25°C unless otherwise specified

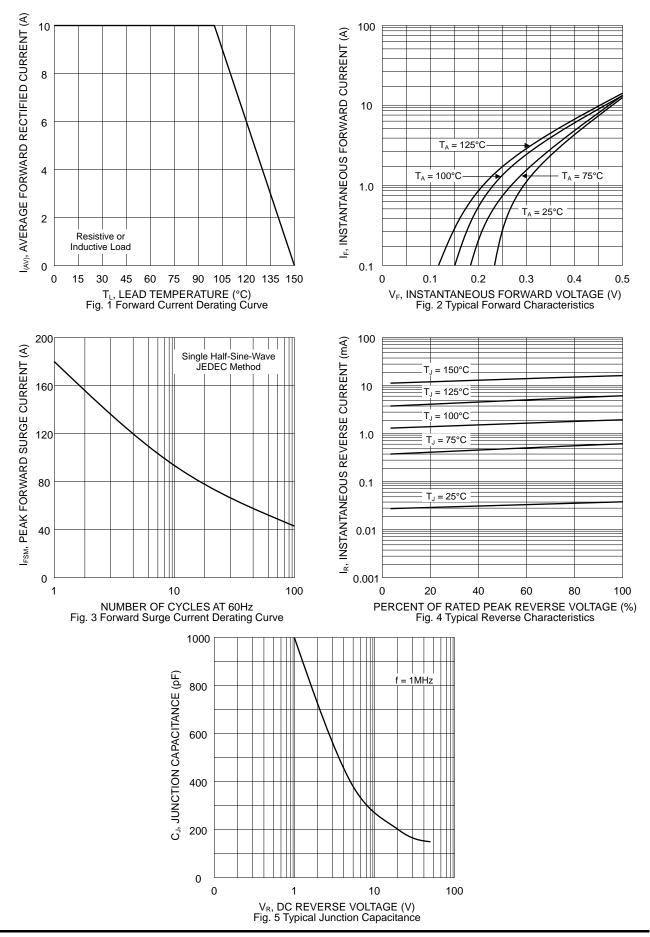
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SD1030	SD1035	SD1040	SD1045	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	35	40	45	V
RMS Reverse Voltage	VR(RMS)	21	25	28	32	V
Average Rectified Output Current $@T_L = 100^{\circ}C$ (Note 1)	lo	10				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	180				A
Forward Voltage $@I_F = 10A$	Vfm	0.55			V	
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Iгм	0.45 18				mA
Thermal Resistance, Junction to Ambient (Note 2) Thermal Resistance, Junction to Lead (Note 2)	R JA R JL	54 8.0				°C/W
Operating Temperature Range	TJ	-65 to +150				°C
Storage Temperature Range	Тѕтс	-65 to +175				°C

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

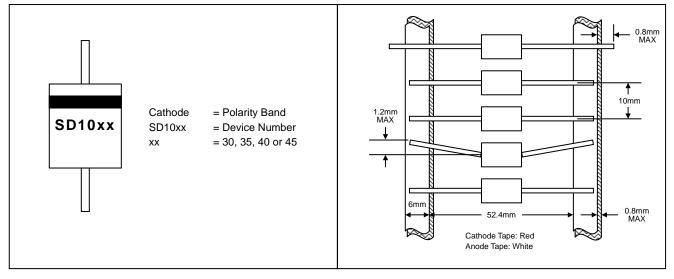
2. Mounted on FR-4 PCB with 63.5 x 63.5mm copper pads.







MARKING INFORMATION



TAPING SPECIFICATIONS

PACKAGING INFORMATION

