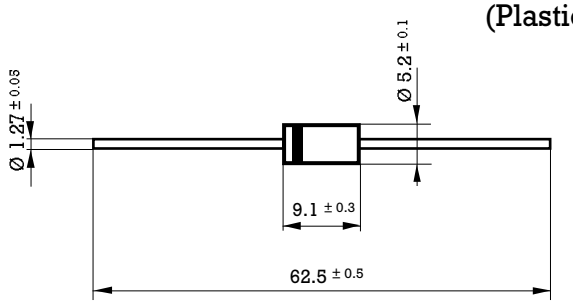
3 Amp. Silicon Rectifier Diodes

Dimensions in mm. DO-201AD (Plastic)



Mounting instructions

1. Min. distance from body to soldering point, 4 mm.
2. Max. solder temperature, 350°C.
3. Max. soldering time, 3,5 sec.
4. Do not bend lead at a point closer than 3 mm. to the body.

Voltage
200 to 1300 V.

Current
3.0 A. at 50°C.

- Low cost
- Diffused junction
- High current capability
- The plastic material carries U/L recognition 94 V-0
- Terminals: Axial Leads
- Polarity: Color band denotes cathode

Maximum Ratings, according to IEC publication No. 134

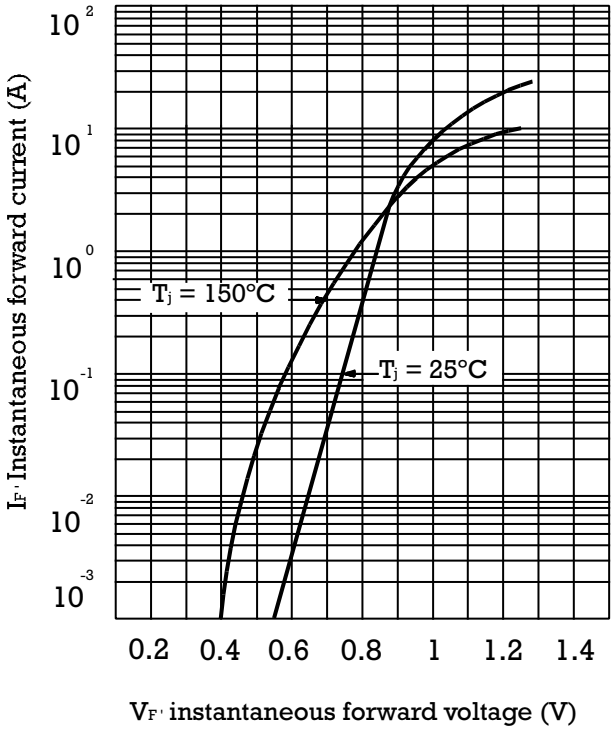
		BY 251	BY 252	BY 253	BY 254	BY 255
V_{RRM}	Peak recurrent reverse voltage (V)	200	400	600	800	1300
$I_{F(AV)}$	Forward current at Tamb = 50 °C	3 A				
I_{FRM}	Recurrent peak forward current	20 A				
I_{FSM}	10 ms. peak forward surge current	100 A				
T_j	Operating temperature range	– 65 to + 150 °C				
T_{stg}	Storage temperature range	– 65 to + 150 °C				

Electrical Characteristics at Tamb = 25°C

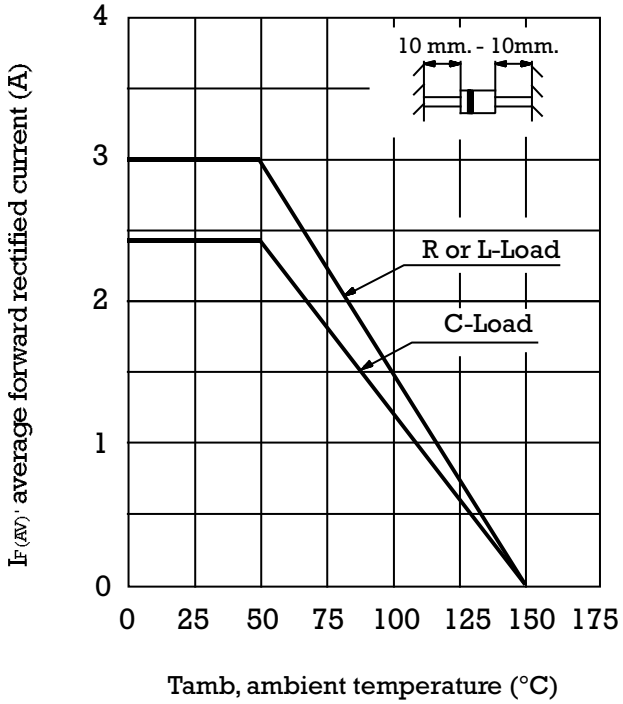
V_F	Max. forward voltage drop at I_F = 3 A	1.1V
I_R	Max. reverse current at V_{RRM}	20 µ A
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	30° C/W

Characteristic Curves

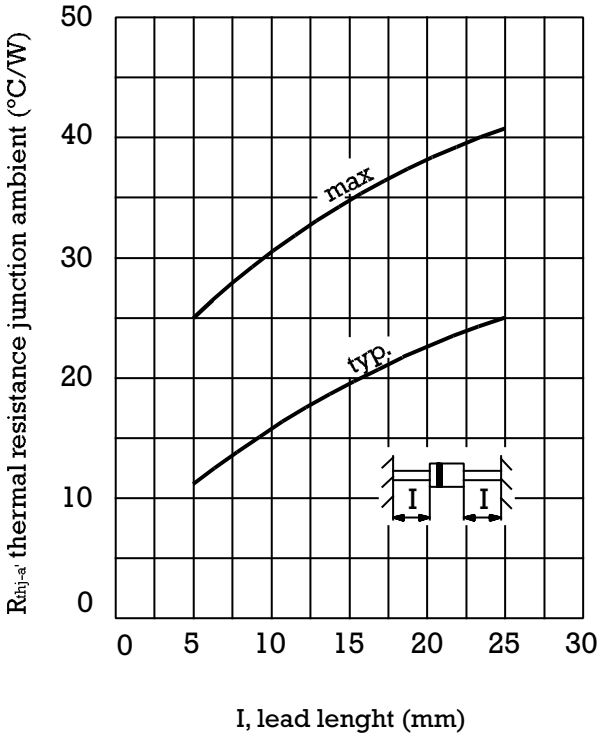
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



THERMAL RESISTANCE



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT