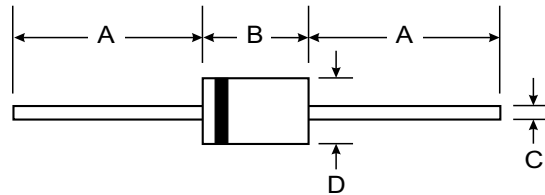


Features

- Low forward voltage drop
- Low power loss, high efficiency
- High current capability
- High reliability
- High surge current capability



Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 260°C/10 seconds/.375" (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Weight: 1.2 grams

DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

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%.

Type Number	Symbol	31DF4	31DF6	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	600	V
Maximum RMS Voltage	V _{RMS}	280	420	V
Maximum DC Blocking Voltage	V _{DC}	400	600	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T _A = 29°C (Note 1) @ T _L = 109°C	I _(AV)	1.2 3.0		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	45		A
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	1.7		V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage	I _R	20		uA
Maximum Reverse Recovery Time (Note 3)	T _{rr}	35		nS
Typical Thermal Resistance (Note 2)	R _{θJA}	80		°C/W
Operating Temperature Range	T _J	-40 to +150		°C
Storage Temperature Range	T _{STG}	-40 to +150		°C

Notes: 1. Without Fin or P.C.Board..

2. Thermal Resistance from Junction to Ambient .375"(9.5mm) Lead Length.

3. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A



RATINGS AND CHARACTERISTIC CURVES (31DF4 THRU 31DF6)

