

VOLTAGE RANGE: 400 - 600V

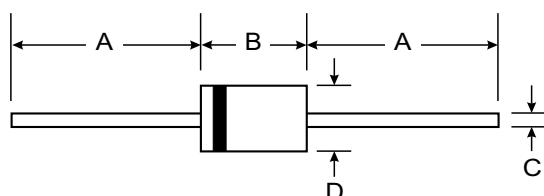
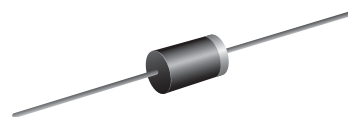
CURRENT: 3.0 A

Features

- Low Reverse Recovery Time (T_{rr})
- Low Reverse Current
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material - UL Recognition 94V-0

Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202 Method 208
- Polarity: Color Band Denotes Cathode
- Approx. Weight: 1.1 grams
- Mounting Position: Any



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 $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	30DF4	30DF6	Unit
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 (9.5mm) Lead Length @ $T_A=75^\circ\text{C}$	$I_{(AV)}$	3.0		A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150		A
Maximum Instantaneous Forward Voltage at 3.0A DC	V_F	1.3		V
Maximum DC Reverse Current	I_R	10		μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	400		ns
Typical Junction Capacitance (Note 2)	C_J	50		pF
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175		$^\circ\text{C}$

- Notes:
1. Reverse Recovery Test Conditions: $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{RR} = 0.25\text{ A}$
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

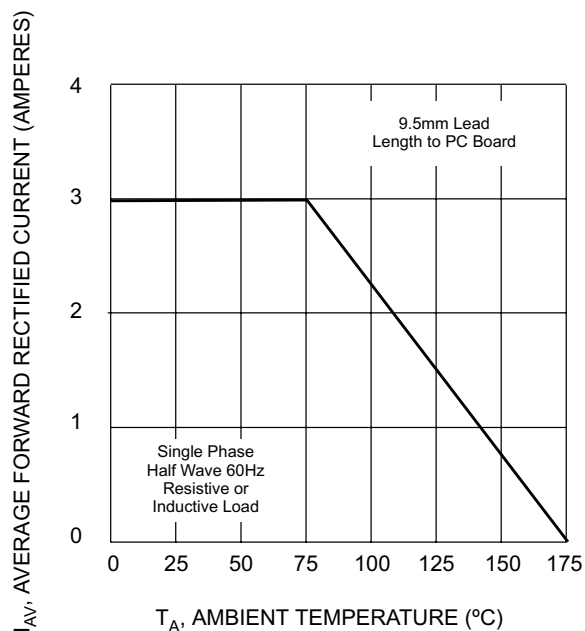


Fig. 1, Forward Derating Curve

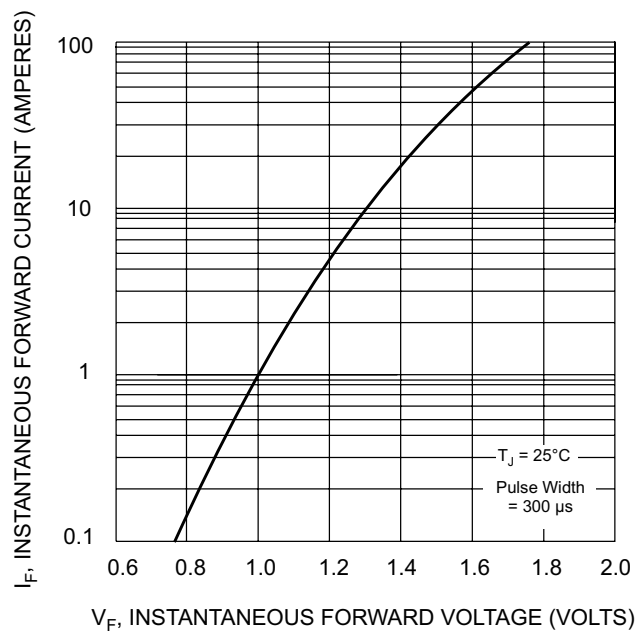


Fig. 2, Typical Forward Characteristics

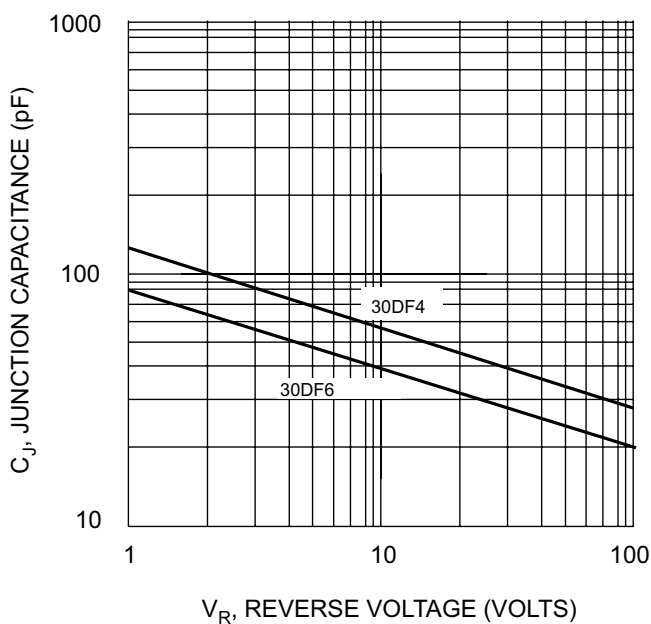


Fig. 3, Typical Junction Capacitance

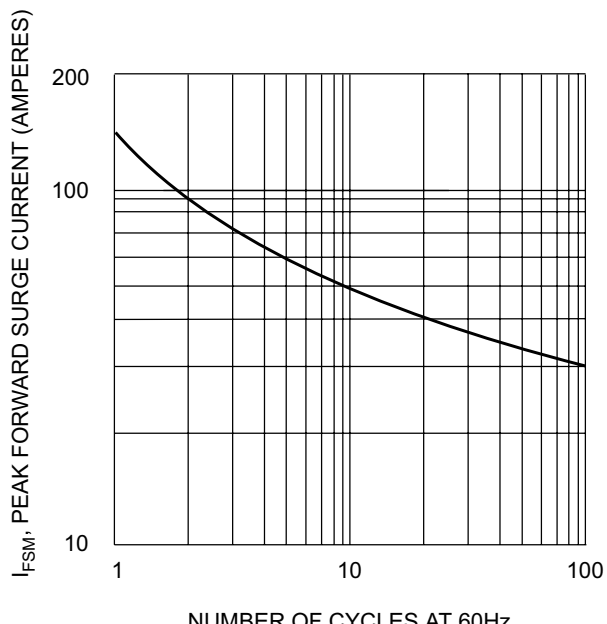


Fig. 4, Maximum Non-Repetitive Surge Current