

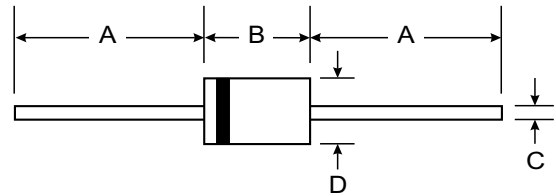
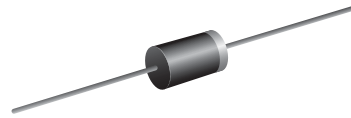
**VOLTAGE RANGE: 400 - 600V**  
**CURRENT: 3.0 A**

### 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



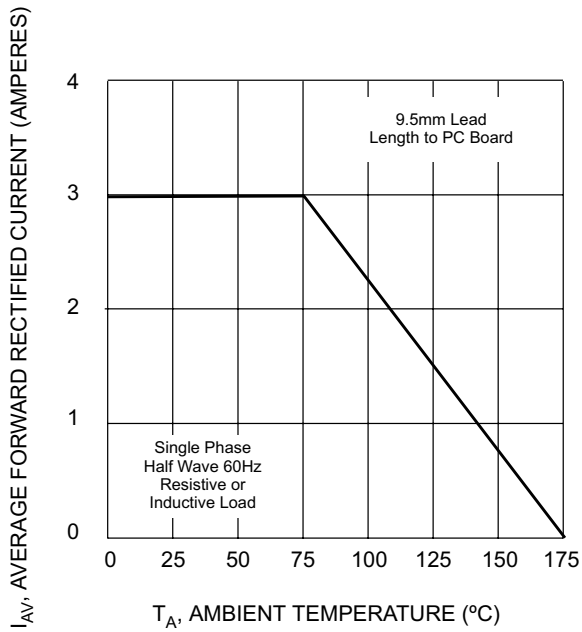
DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics

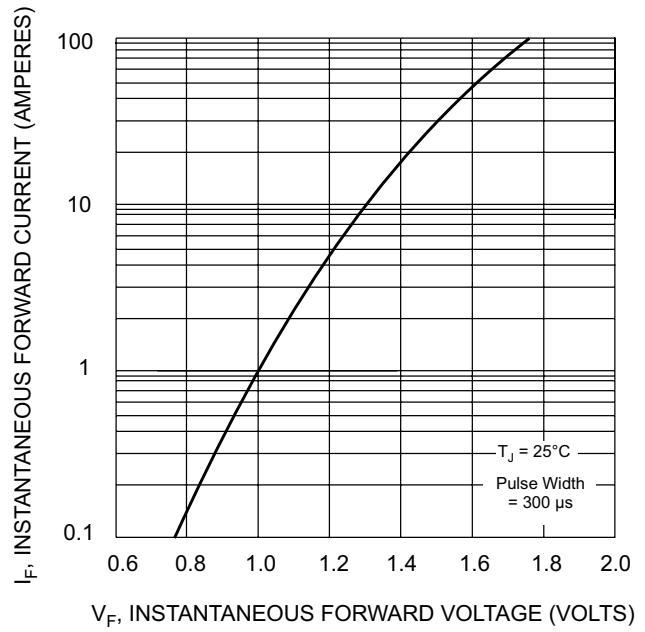
Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

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 @ $T_A=75^{\circ}C$	$I_{(AV)}$	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		$\mu A$
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		$^{\circ}C$

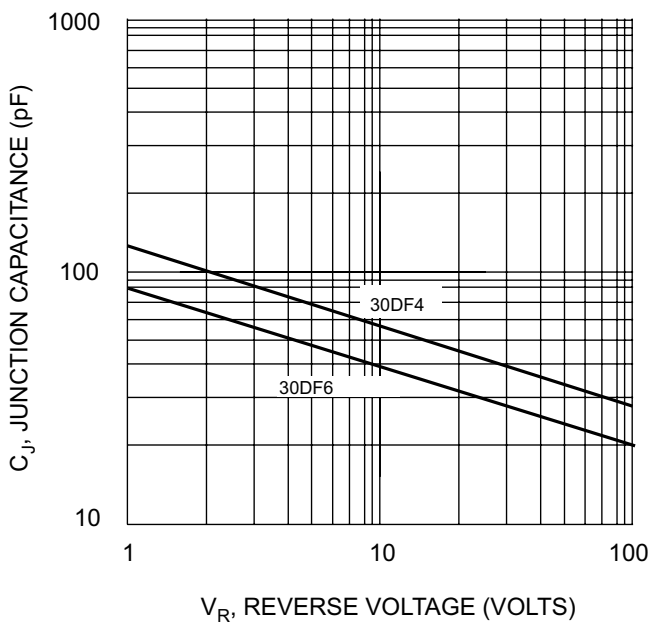
- Notes: 1. Reverse Recovery Test Conditions:  $I_F=0.5 A$ ,  $I_R=1.0 A$ ,  $I_{RR}=0.25 A$   
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.



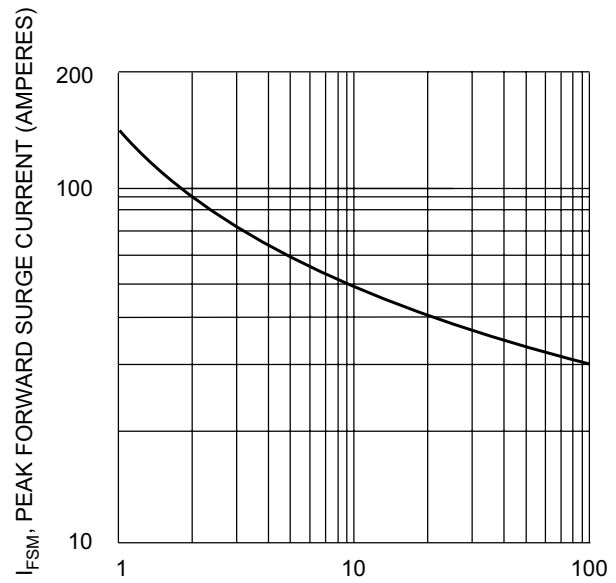
$T_A$ , AMBIENT TEMPERATURE (°C)  
Fig. 1, Forward Derating Curve



$V_F$ , INSTANTANEOUS FORWARD VOLTAGE (VOLTS)  
Fig. 2, Typical Forward Characteristics



$V_R$ , REVERSE VOLTAGE (VOLTS)  
Fig. 3, Typical Junction Capacitance



NUMBER OF CYCLES AT 60Hz  
Fig. 4, Maximum Non-Repetitive Surge Current