

### General Purpose Rectifier

#### DO-201AD

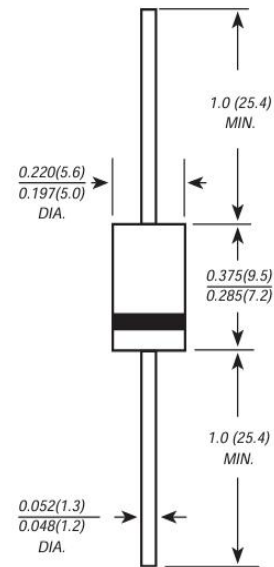
Parameter	Value	Unit
$V_{RRM}$	50~1000	V
$I_{F(AV)}$	3.0	A

#### Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

#### Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction to Lead



Dimensions in inches and (millimeters)

Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5400	50V	35V	50V
1N5401	100V	70V	100V
1N5402	200V	140V	200V
1N5404	400V	280V	400V
1N5405	500V	350V	500V
1N5406	600V	420V	600V
1N5407	800V	560V	800V
1N5408	1000V	700V	1000V

#### Electrical Characteristics (at $T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Conditions
Average Forward Current	$I_{F(AV)}$	3.0A	$T_A = 105^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.00V	$I_F = 3.0\text{A}; T_A = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5uA 100uA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	40pF	Measured at 1.0MHz, $V_R = 4.0\text{V}$

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

## Typical characteristics

Fig 1. Typical Forward Characteristics

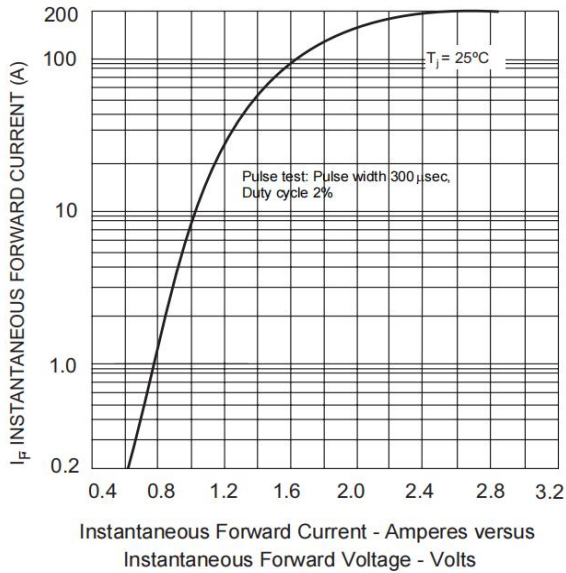


Fig 2. Forward Derating Curve

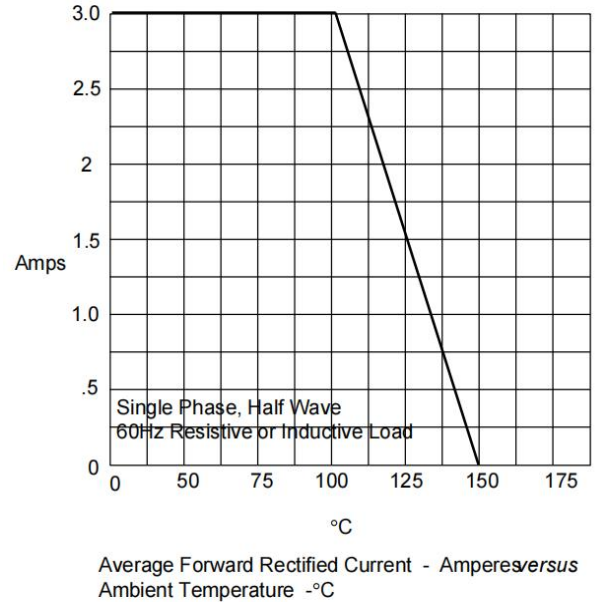
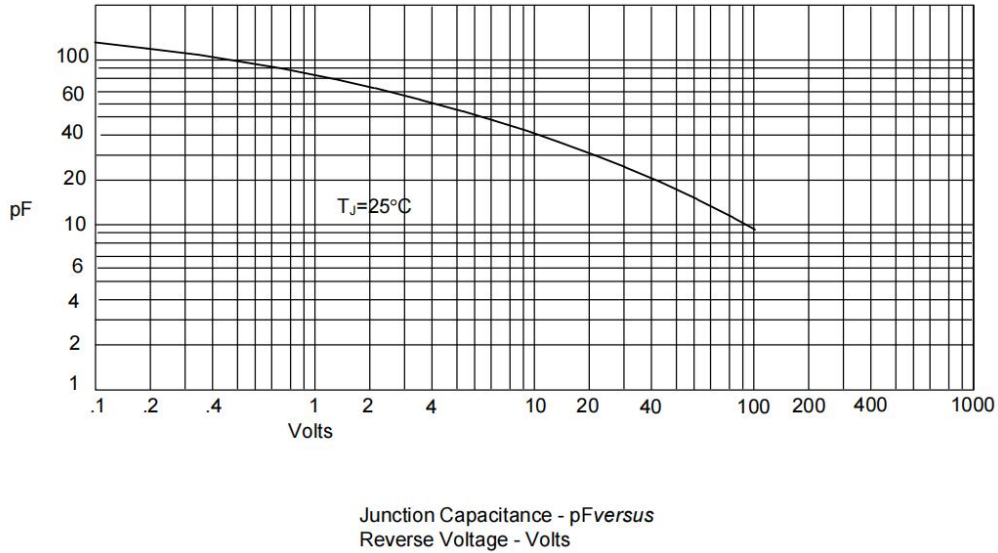


Fig 3. Peak Forward Surge Current



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