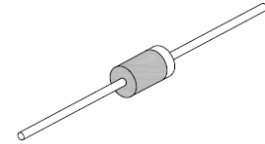


### 3.0A Ultra Fast Recovery Rectifier

#### Features

- Low coat construction
- Low forward voltage drop, high current capability
- Low leakage, high forward surge capability
- High temperature soldering guaranteed: 250°C, 0.375" (9.5mm), lead length for 10 seconds, 5 lbs. (2.3kg) tension
- RoHS Compliance



DO-201AD



#### Mechanical Data

<b>Case:</b>	JEDEC DO-201AD molded plastic
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Plated axial leads, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes cathode end
<b>Mounting Position:</b>	Any
<b>Weight:</b>	0.04 ounce, 1.1 gram

#### Maximum Ratings and Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Description	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	Unit	Conditions
<b>V<sub>RRM</sub></b>	Max. Repetitive Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V	
<b>V<sub>RMS</sub></b>	Max. RMS Voltage	35	70	140	210	280	350	420	560	700	V	
<b>V<sub>DC</sub></b>	Max. DC Blocking Voltage	50	100	200	300	400	500	600	800	1000	V	
<b>I<sub>F(AV)</sub></b>	Max. Average Forward Rectified Current	3.0									A	0.375" (9.5mm) lead length at $T_A=55^\circ\text{C}$
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	150									A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>V<sub>F</sub></b>	Max. Instantaneous Forward Voltage	1.0					1.7				V	$I_F(AV)=3.0A$ ,

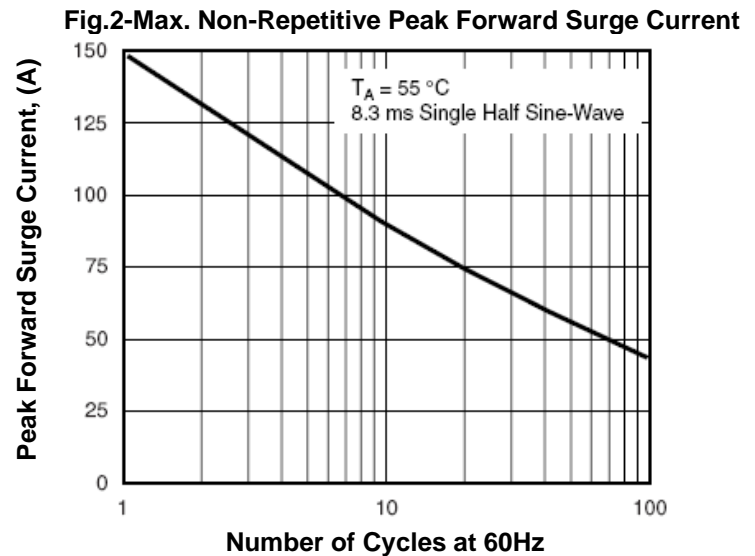
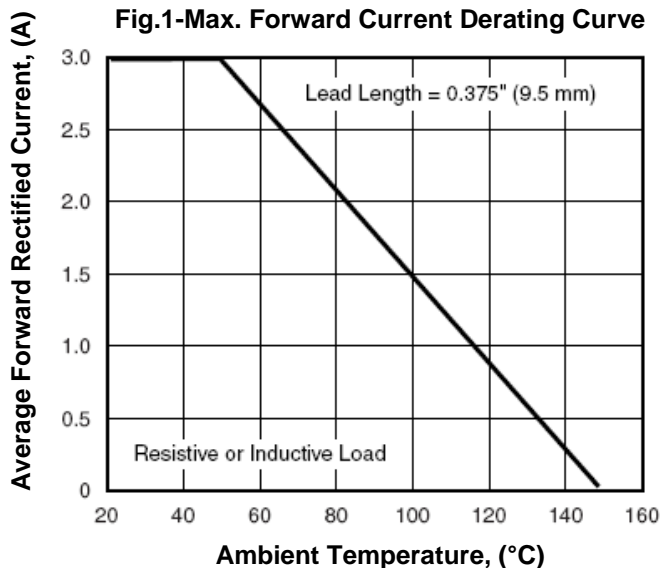
# 3.0A Ultra Fast Recovery Rectifier

## UF5400 - UF5408

Symbol	Description	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	Unit	Conditions
<b>I<sub>R</sub></b>	Max. DC Reverse Current at Rated DC Blocking Voltage	10									μA	TA=25°C
		50										TA=100°C
<b>T<sub>rr</sub></b>	Max. Reverse Recovery Time	50					75				nS	IF=0.5A, IR=1.0A, Irr=0.25A
<b>C<sub>J</sub></b>	Typical Junction Capacitance	45									pF	VR= 4V, f=1MHz
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance	20									°C / W	Note 2
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-55 to +150									°C	

**Note:** 1. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length.

### Typical Characteristics Curves



# 3.0A Ultra Fast Recovery Rectifier

## UF5400 - UF5408

Fig.3-Typical Instantaneous Forward Characteristics

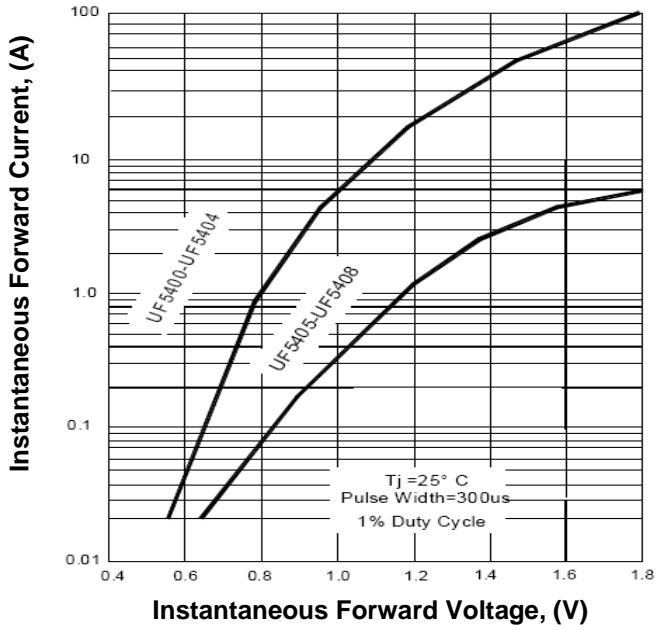


Fig.4-Typical Reverse Characteristics

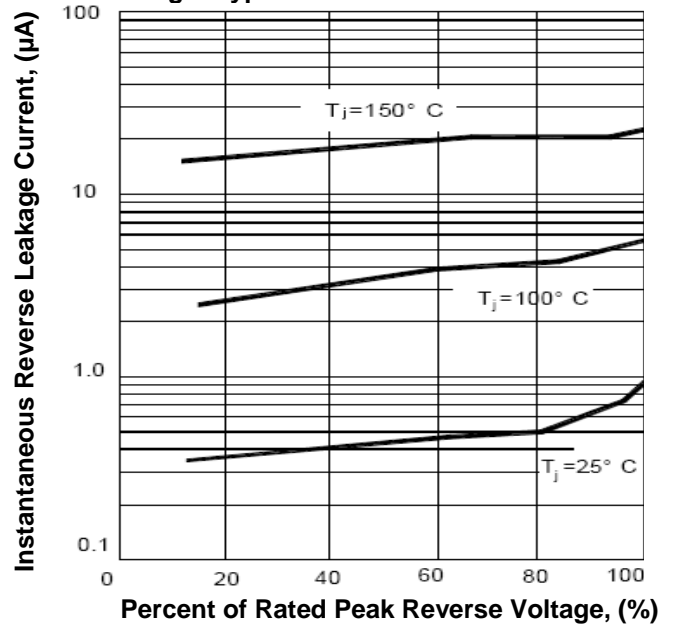
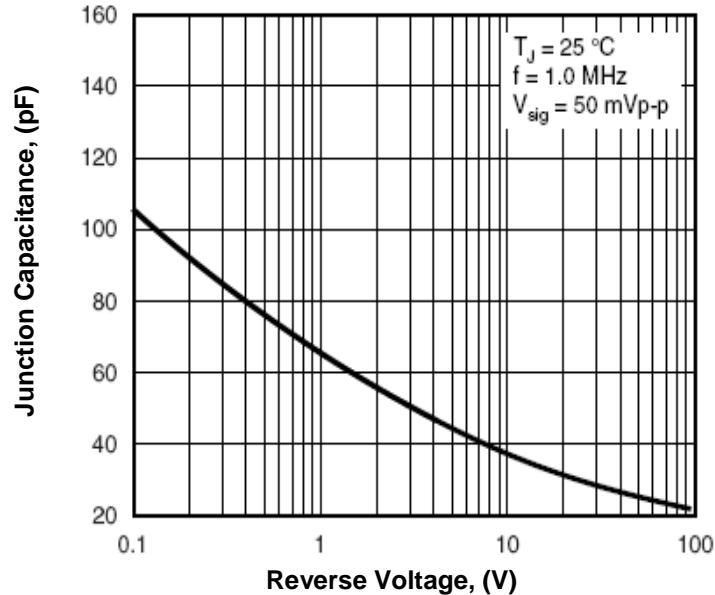


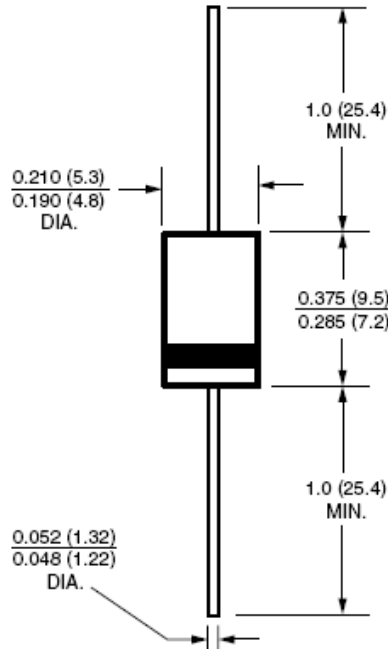
Fig.5-Typical Junction Capacitance



# 3.0A Ultra Fast Recovery Rectifier

## UF5400 - UF5408

### Dimensions in inches (mm)



DO-201AD

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