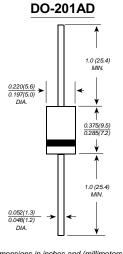
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# **UF5400 THRU UF5408**

# **ULTRA FAST RECTIFIERS**

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes



Dimensions in inches and (millimeters)

## **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Ultra fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds,0.375″(9.5mm) lead length, 5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

Case: JEDEC DO-201AD molded plastic body

**Terminals**: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.04 ounce, 1.10 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	210	280	350	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum average forward rectified current 0.375″ (9.5mm) lead length at Ta=55℃	l(AV)	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	150.0									Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.0					1.70			Volts	
Maximum DC reverse current  at rated DC blocking voltage  Ta=25℃  Ta=100℃	lR	5.0 150.0							μА		
Maximum reverse recovery time (NOTE 1)	trr	50					75			ns	
Typical junction capacitance (NOTE 2)	Cı		45								pF
Typical thermal resistance (NOTE 3)	Reja	20.0								°C/W	
Operating junction and storage temperature range	ТЈ, Тѕтс	-65 to +150								°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

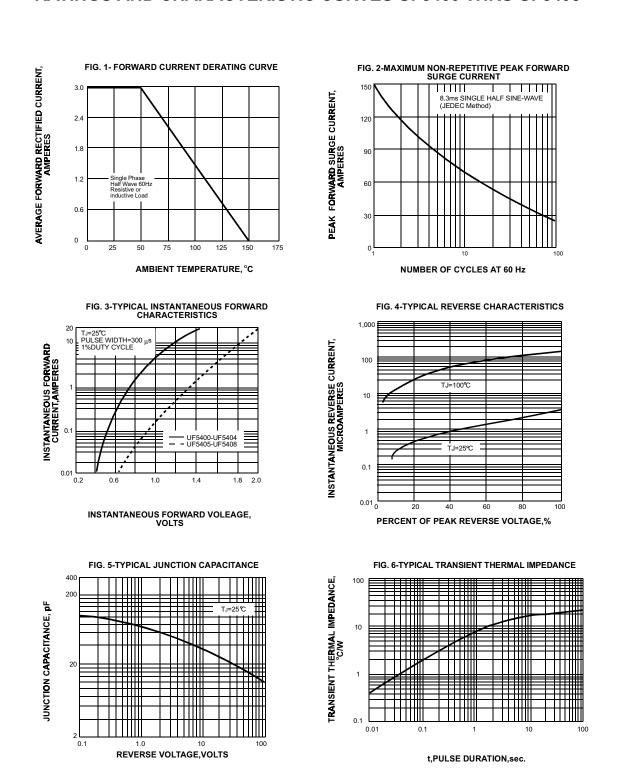
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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## **RATINGS AND CHARACTERISTIC CURVES UF5400 THRU UF5408**



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#### **TECHNICAL DATA**

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