



UF5400 THRU UF5408

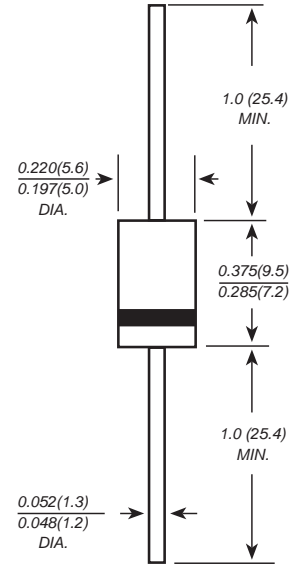
Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

ULTRA FAST RECTIFIERS

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

DO-201AD **RoHS**
COMPLIANT



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DO-201AD Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
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%.

parameter	SYMBOLS	UF	UF	UF	UF	UF	UF	UF	UF	UF	UNITS	
		5400	5401	5402	5403	5404	5405	5406	5407	5408		
Marking code		MDD UF 5400	MDD UF 5401	MDD UF 5402	MDD UF 5403	MDD UF 5404	MDD UF 5405	MDD UF 5406	MDD UF 5407	MDD UF 5408		
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	V	
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	V	
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	V	
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I <sub(av)< sub=""></sub(av)<>	3.0									A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150.0									A	
Maximum instantaneous forward voltage at 3.0A	V _F	1.0			1.7						V	
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	5.0				150.0						µA
Maximum reverse recovery time (NOTE 1)	t _{rr}	50				75						ns
Typical junction capacitance (NOTE 2)	C _J	45.0									pF	
Typical thermal resistance (NOTE 3)	R _{θJA}	20.0									°C/W	
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +150									°C	

Note: 1. Reverse recovery condition I_F=0.5A, I_R=1.0A, I_{rr}=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



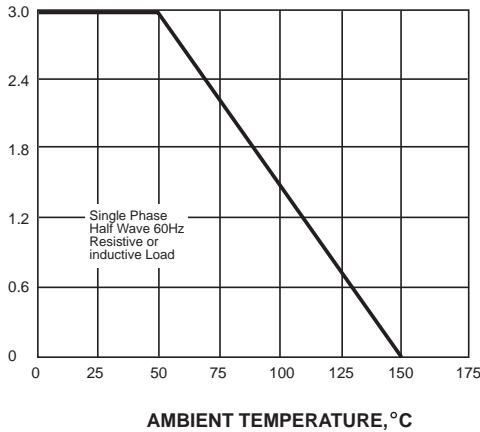
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Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Amperes

Ratings And Characteristic Curves

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT, AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

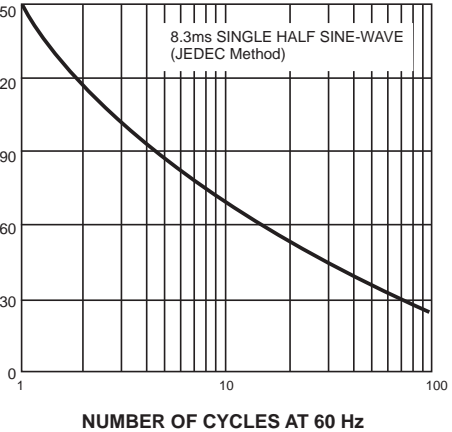
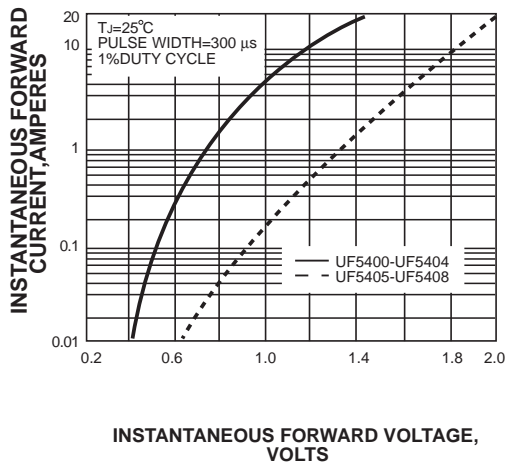


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

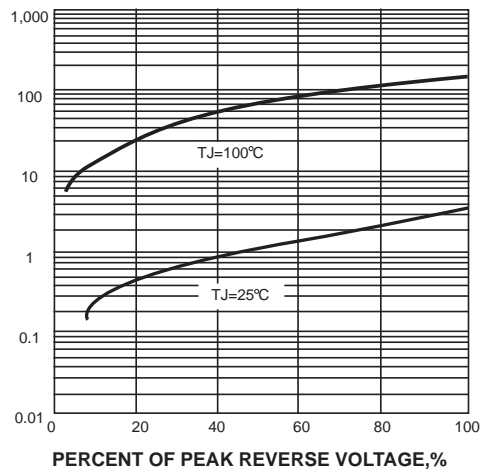
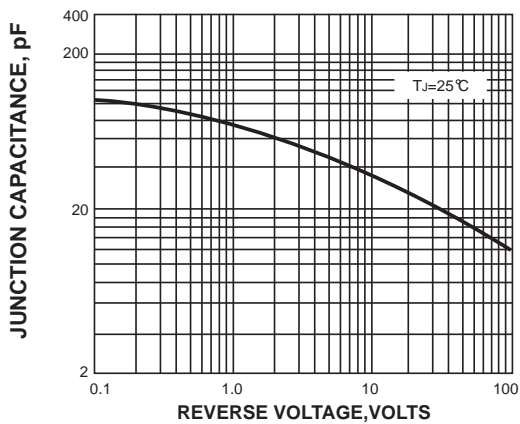
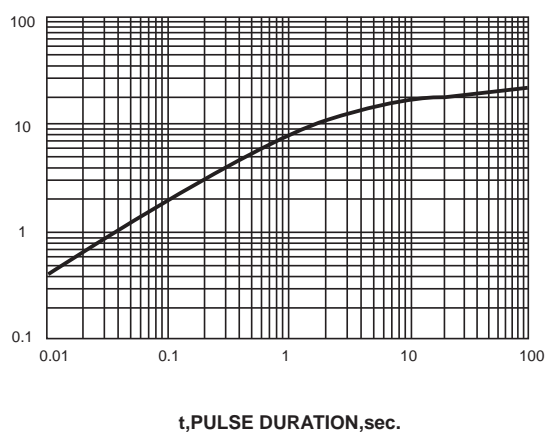


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE, °C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>MDD\(辰达行\)](#)