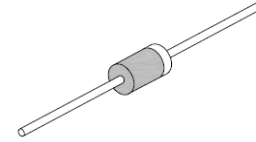


3.0A Ultra Fast Recovery Rectifier

Features

- Glass passivated chip junction
- Low forward voltage, high current capability
- Low leakage, high surge capability
- High temperature soldering guaranteed: 250°C, 0.375" (9.5mm) Lead length for 10 seconds, 5 lbs. (2.3kg) tension
- Plastic package has UL Flammability Classification 94V-0
- RoHS Compliance



DO-201AD



Mechanical Data

Case:	JEDEC DO-201AD molded plastic over passivated chip
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Mounting Position:	Any
Weight:	1.1 grams

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

Symbol	Description	UF5400	UF5401	UF5402	UF5403	UF5404	UF5405	UF5406	UF5407	UF5408	Unit	Conditions
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V	
V_{DC}	Max. DC Blocking Voltage	35	70	140	210	280	350	420	560	700	V	
V_{RMS}	Max. RMS Voltage	50	100	200	300	400	500	600	800	1000	V	
V_F	Max. Forward Voltage	1.0					1.7				V	IF(AV)=3.0A
I_{F(AV)}	Max. Average Forward Rectified Current										A	TA=55°C
I_{FSM}	Peak Forward Surge Current										A	TA=55°C, See note 1

3.0A Ultra Fast Recovery Rectifier

UF5400 - UF5408

Symbol	Description	UF5400	UF5401	UF5402	UF5403	UF5404	UF5405	UF5406	UF5407	UF5408	Unit	Conditions
IR	Max. Reverse Current @ VR = VRRM	10									µA	TA = 25°C
		75				200					µA	TA = 100°C
Trr	Max. Reverse Recovery Time	50				75					nS	IF = 0.5A, IR = 1.0A, Irr = 0.25A
RthJA RthJL	Typical Thermal Resistance	20									°C / W	Note 2
		8.5										
CJ	Typical Junction Capacitance	45				36					pF	VR = 4V, f = 1MHz
TJ, TSTG	Operating Junction and Storage Temperature Range	-55 to +150									°C	

Note: 1. 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

2. Thermal resistance from junction to lead and from to ambient with 0.375" (9.5mm)

Lead length, both leads attached to heatsink.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

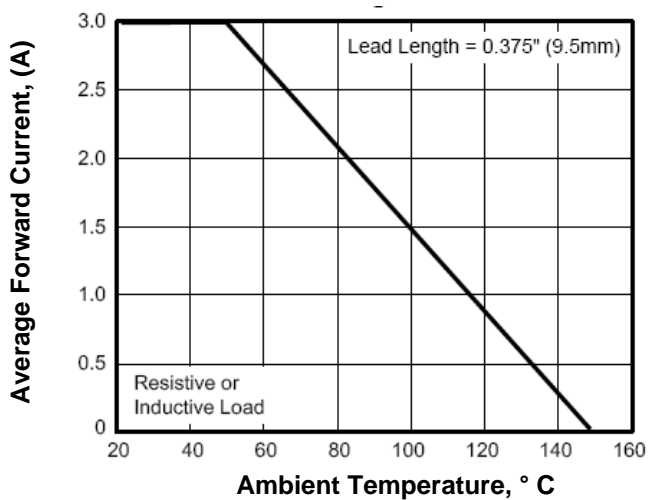
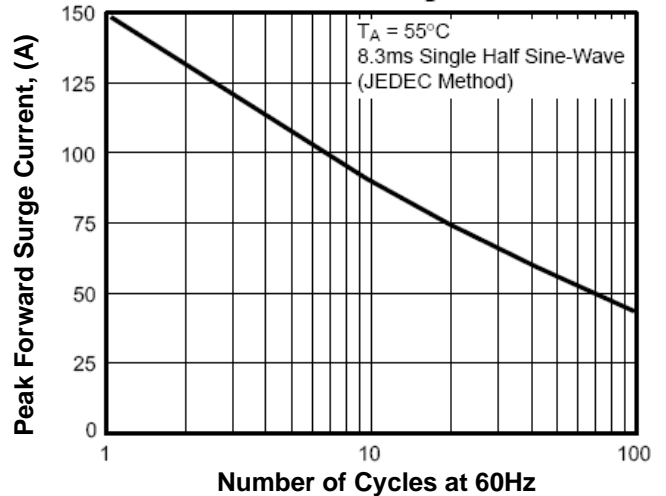


Fig.2- Maximum Non-Repetitive Forward Surge Current



3.0A Ultra Fast Recovery Rectifier

UF5400 - UF5408

Fig.3- Typical Forward Characteristics

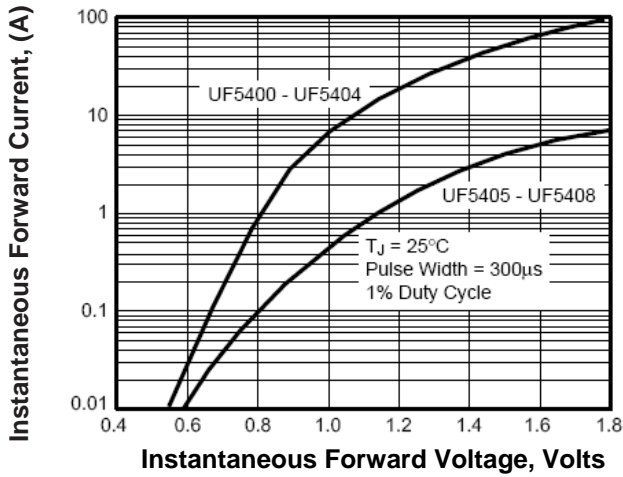


Fig.4-Typical Reverse Characteristics

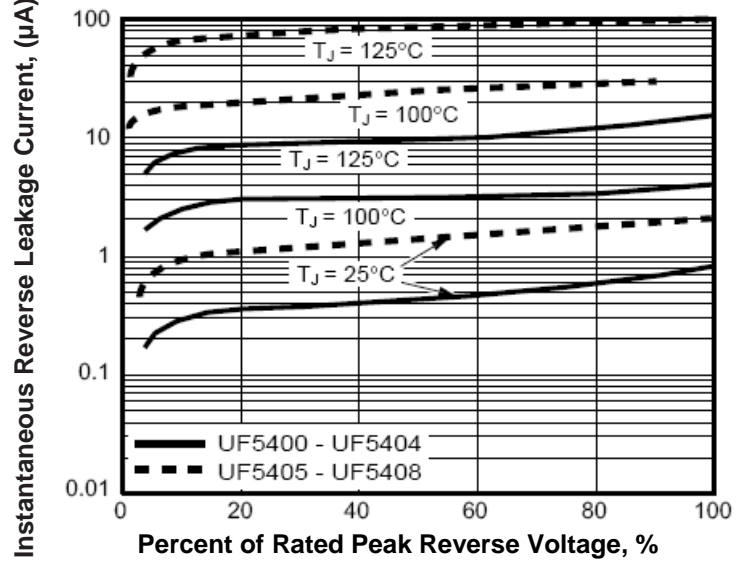
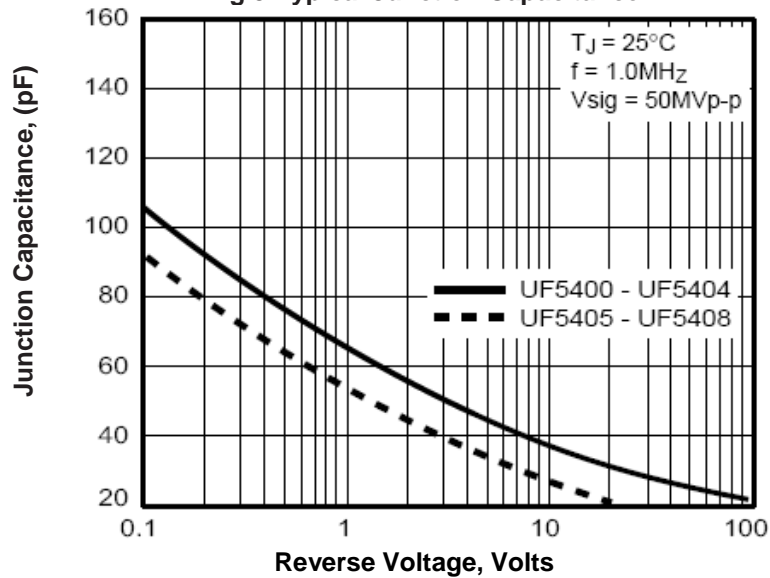


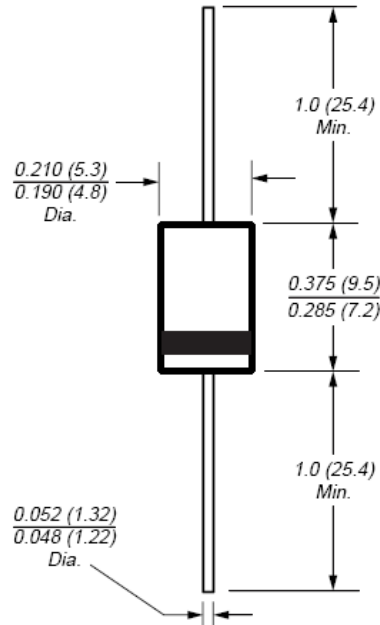
Fig.5-Typical Junction Capacitance



3.0A Ultra Fast Recovery Rectifier

UF5400 - UF5408

Dimensions in inches (mm)



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