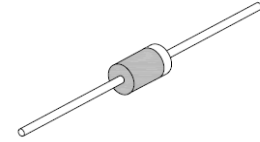


3.0A Ultra Fast Recovery Rectifier

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

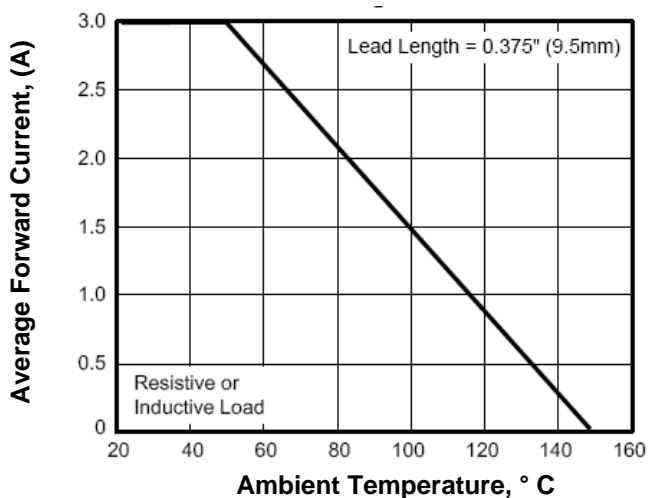
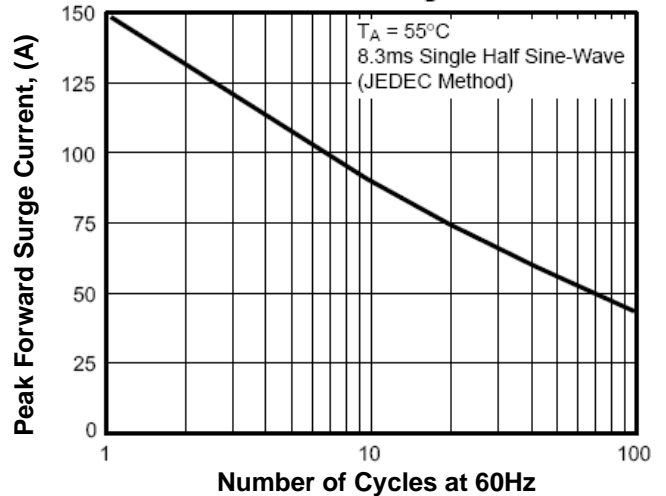


Fig.2- Maximum Non-Repetitive Forward Surge Current



3.0A Ultra Fast Recovery Rectifier

UF5400 - UF5408

Fig.3- Typical Forward Characteristics

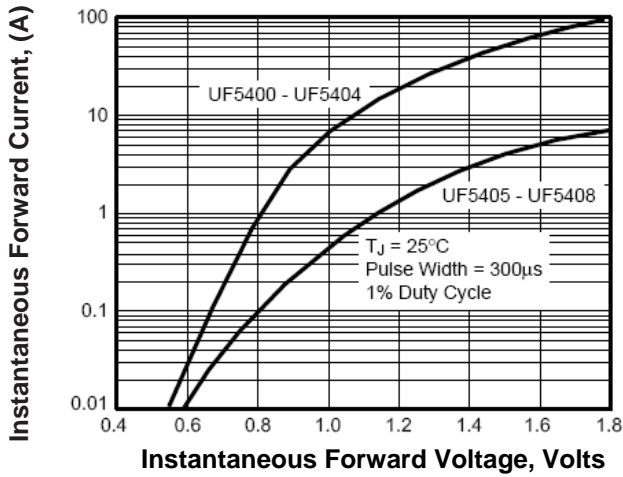


Fig.4-Typical Reverse Characteristics

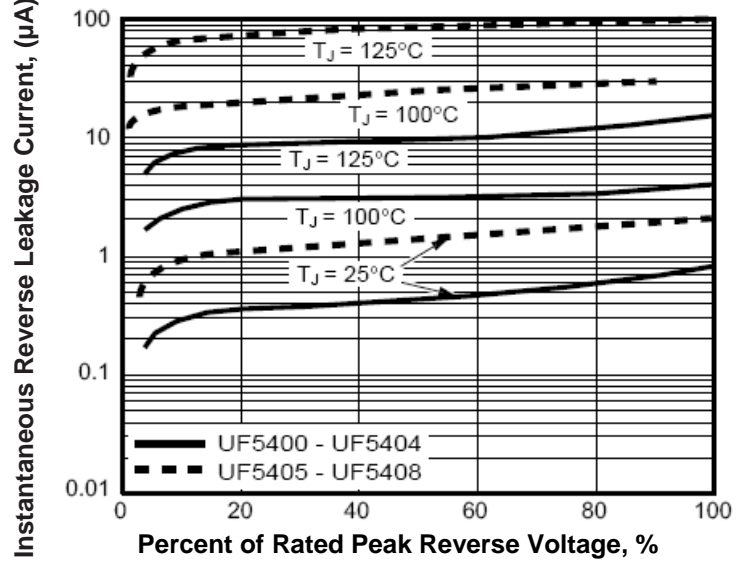
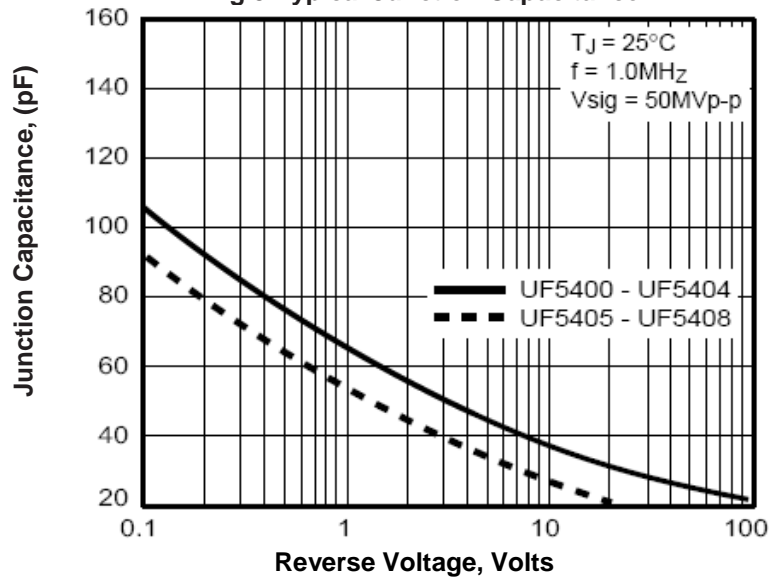


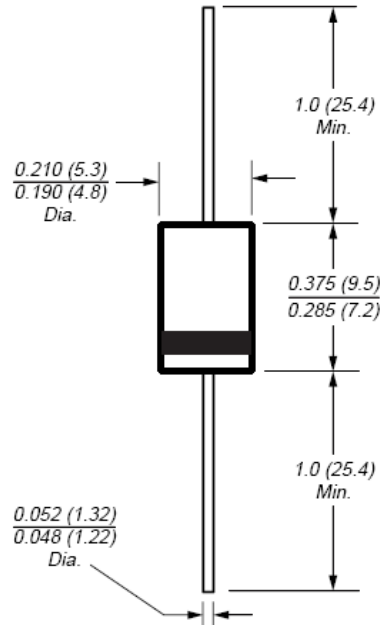
Fig.5-Typical Junction Capacitance



3.0A Ultra Fast Recovery Rectifier

UF5400 - UF5408

Dimensions in inches (mm)



How to contact us:

DO-201AD

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931