

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









<u> UF2001 - UF2007</u>

Features

- **Diffused Junction**
- Ultra-Fast Switching for High Efficiency
- Surge Overload Rating to 60A Peak
- Low Reverse Leakage Current
- Lead Free Finish, RoHS Compliant (Note 4)

DO-15 Dim Min Max 25.40 Α В 5.50 7.62 С 0.686 0.889 D 2.60 3.60

All Dimensions in mm

Mechanical Data

Case: DO-15

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020D

Terminals: Finish - Tin. Solderable per MIL-STD-202, Method 208 @3:

Polarity: Cathode Band Marking: Type Number

Ordering Information: See Page 3 Weight: 0.4 grams (approximate)

Maximum Ratings and Electrical Characteristics

@T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	UF 2001	UF 2002	UF 2003	UF 2004	UF 2005	UF 2006	UF 2007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage (Note 5)		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)	@ T _A = 50°C	Io				2.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on R	ated Load	I _{FSM}				60				Α
Forward Voltage	@ $I_F = 2.0A$	V_{FM}		1.0		1.3		1.7		V
Peak Reverse Current at Rated DC Blocking Voltage (Note 5)	@ T _A = 25°C @ T _A = 100°C	I _{RM}				5.0 100	•			μА
Reverse Recovery Time (Note 3)		t _{rr}		5	0			75		ns
Typical Total Capacitance (Note 2)		Ст		5	0			30		pF
Typical Thermal Resistance Junction to Ambient		$R_{\theta JA}$				50				°C/W
Operating and Storage Temperature Range		T _{J,} T _{STG}	-65 to +150			°C				

Notes:

- Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- Measured at $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5. RoHS revision 13.2.2003. High temperature solder exemption applied, see *EU Directive Annex Note 7*.
- 5. Short duration pulse test used to minimize self heating effect.

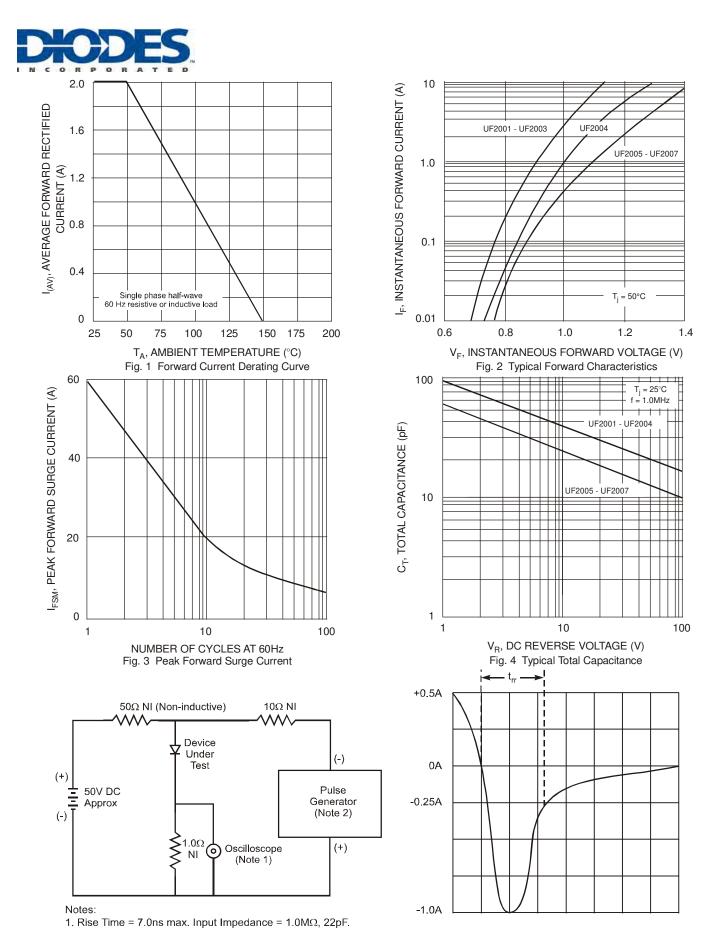


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

Set time base for 50/100 ns/cm

2. Rise Time = 10ns max. Input Impedance = 50Ω .



Ordering Information (Note 6)

Device	Packaging	Shipping			
UF2001-T	DO-15	4K/Tape & Reel, 13-inch			
UF2002-T	DO-15	4K/Tape & Reel, 13-inch			
UF2003-T	DO-15	4K/Tape & Reel, 13-inch			
UF2004-T	DO-15	4K/Tape & Reel, 13-inch			
UF2005-T	DO-15	4K/Tape & Reel, 13-inch			
UF2006-T	DO-15	4K/Tape & Reel, 13-inch			
UF2007-T	DO-15	4K/Tape & Reel, 13-inch			

6. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02007.pdf.

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