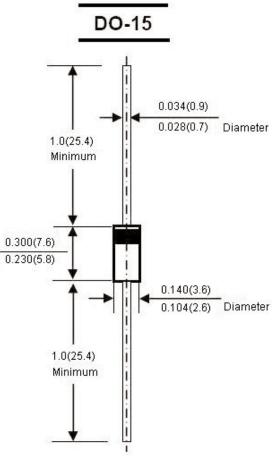


Reverse Voltage - 50 to 1,000 Volts and Forward Current - 2.0 Amperes



Dimensions: Inches (Millimetres)

Features:

- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability.
- Plastic material

Mechanical Data:

Case : JEDEC DO-15 moulded plastic
Polarity : Colour band denotes cathode
Weight : 0.015 ounces, 0.4 grams

Mounting position : Any

Maximum Ratings and Electrical Characteristics:

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

http://www.farnell.com http://www.newark.com http://www.cpc.co.uk





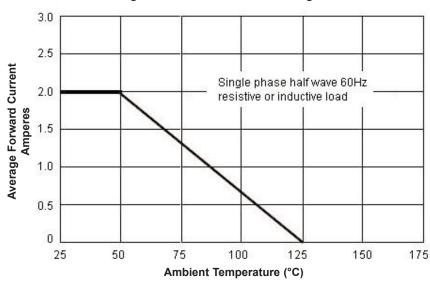
Characteristics	Symbol	UF2001	UF2002	UF2003	UF2004	UF2005	UF2006	UF2007	UF2008	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @T _A =50°C	I _(AV)	2.0						А		
BakelitePeak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	60					А			
Peak Forward Voltage at 2.0A DC (Note 1)	V _F	1.0 1.3 1.7					V			
Maximum DC Reverse Current @T_=25°C at Rated DC Bolcking Voltage @T_=100°C	lR	5.0 100					μА			
Maximum Reverse Recovery Time (Note 1)	T _{RR}	50 75					nS			
Typical Junction Capacitance (Note1)	СЈ	50 30					pF			
Typical Thermal Resistance (Note2)	R _{eJA}	25					°C/W			
Operating Temperature Range	T _J	-55 to +125						°C		
Storage Temperature Range	T _{STG}	-55 to +150						°C		

Notes:

- 1. Measured with I_F =0.5A, CI_R =1A, CI_{RR} =0.25A
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient.

Rating and Characterstic Curves

Figure 1 - Forward Current Derating Curve



http://www.farnell.com http://www.newark.com http://www.cpc.co.uk





Figure 2 - Maximum Non-repetitive Surge Current

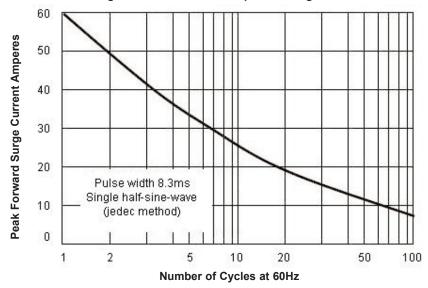
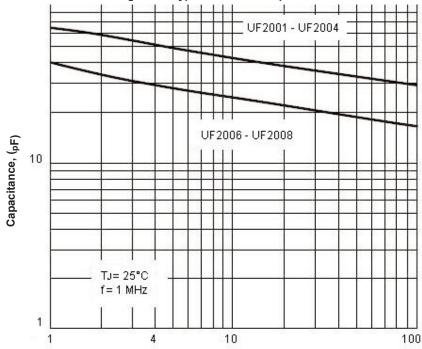


Figure 2 - Typical Junction Capacitance



Reverse Voltage, Volts







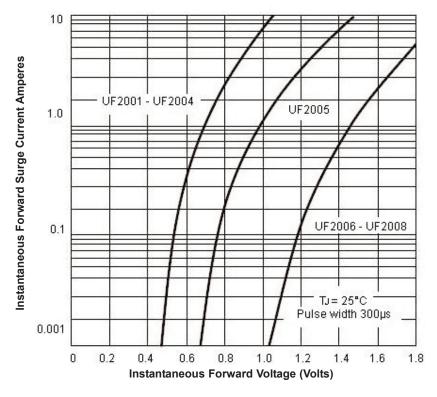


Figure 4 - Typical Forward Characteristics

Part Number Table

Description	Part Number				
Ultra Fast Recitifiers	UF2001				
Ultra Fast Recitifiers	UF2002				
Ultra Fast Recitifiers	UF2003				
Ultra Fast Recitifiers	UF2004				
Ultra Fast Recitifiers	UF2005				
Ultra Fast Recitifiers	UF2006				
Ultra Fast Recitifiers	UF2007				
Ultra Fast Recitifiers	UF2008				

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for the propose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.

http://www.farnell.com http://www.newark.com http://www.cpc.co.uk

