



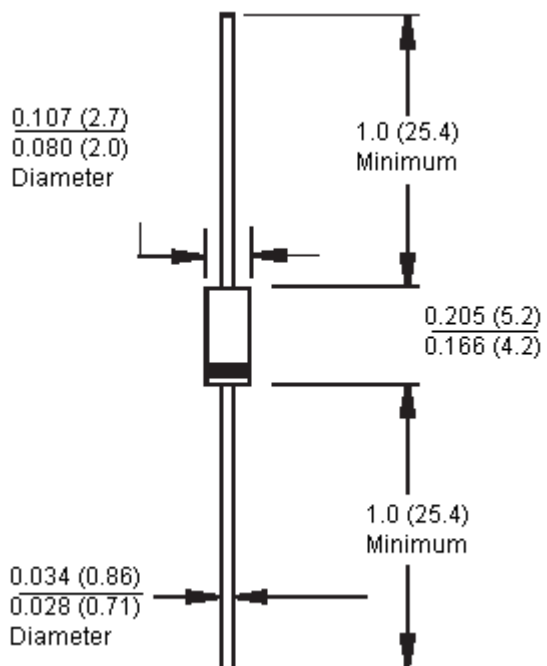
**RoHS
Compliant**



Features:

- Plastic package.
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes.
- Glass passivated chip junction.
- Excellent high temperature switching.
- Ultrafast recovery time for high efficiency.
- Soft recovery characteristics.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch, (9.5mm) lead lengths at 5lbs., (2.3kg) tension.

DO-41 / DO-204AL



Dimensions : Inches (Millimetres)

Mechanical Data:

Cases	: JEDEC DO-204AL moulded plastic body over passivated chip.
Terminals	: Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026.
Polarity	: Colour band denotes cathode end.
Mounting Position	: Any.
Weight	: 0.012 ounce, 0.34 gram.



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%.

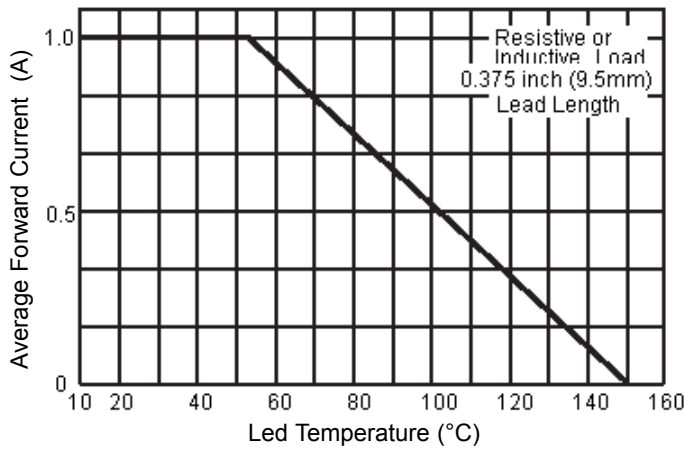
Note: 1. Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.

2. Measured at 1MHz and Applied Reverse Voltage of 4.0V dc.

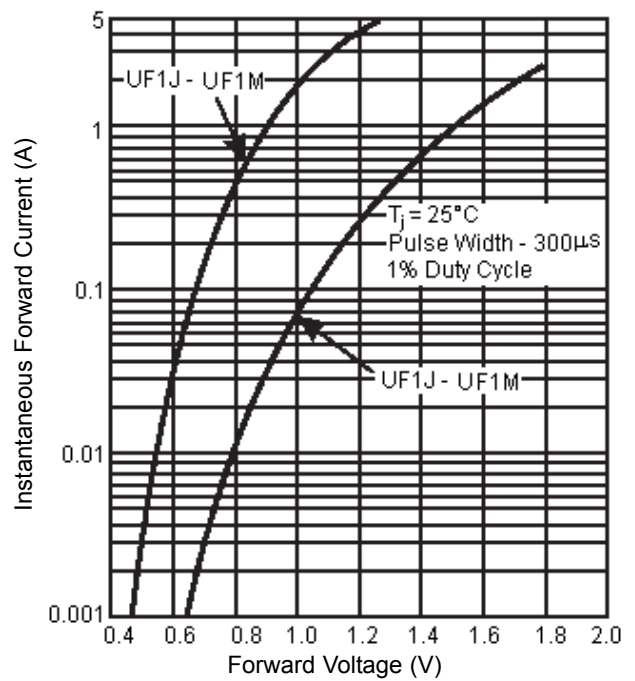
3. Thermal Resistance from junction to ambient and from Junction to Lead length 0.375 inch (9.5mm),
Mounted on 0.2 x 0.2 inches (5mm x 5mm) Cu pads.

Ratings and Characteristic Curves (UF1A, UF1B, UF1D, UF1G, UF1J, UF1K, UF1M)

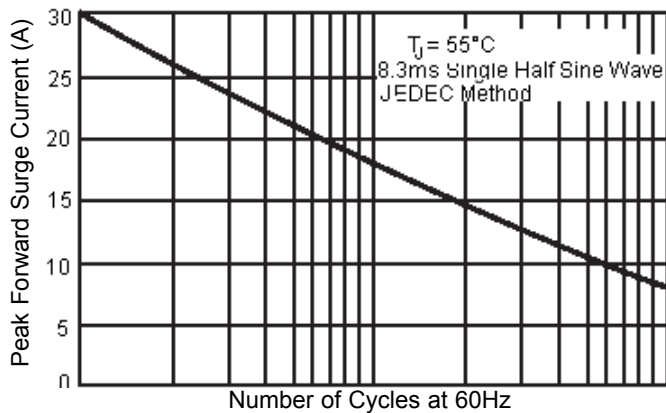
Maximum Forward Current Derating Curve



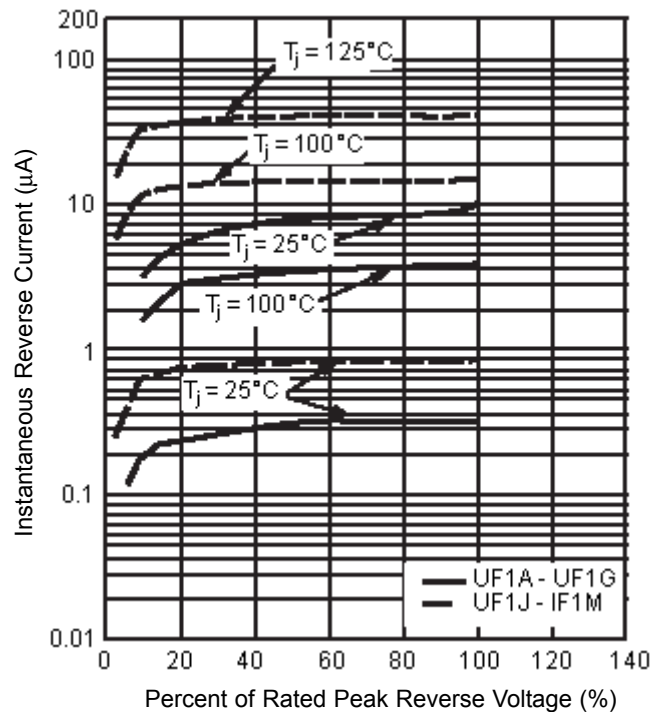
Typical Forward Characteristics



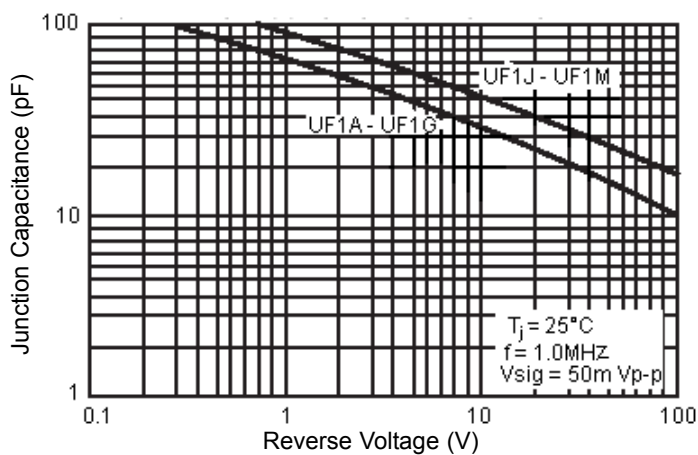
Maximum Non-Repetitive Forward Surge Current



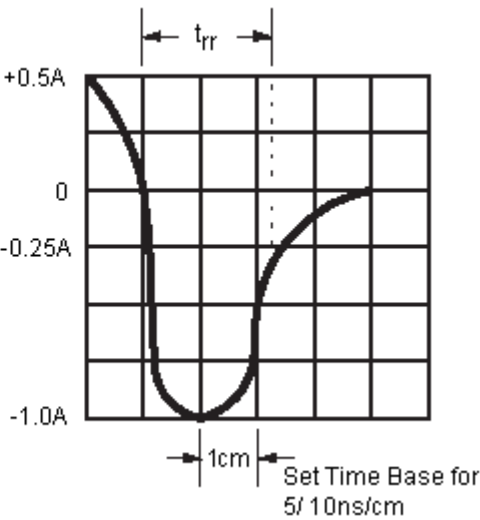
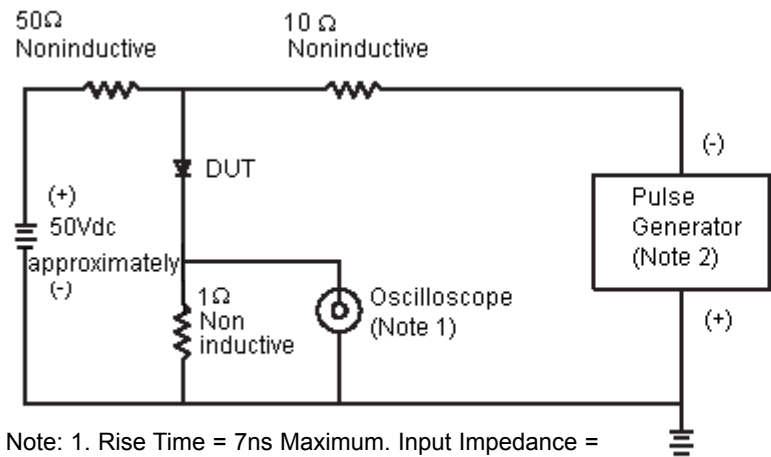
Typical Reverse Characteristics



Typical Junction Capacitance



Reverse Recovery Time Characteristic and Test Circuit Diagram



Note: 1. Rise Time = 7ns Maximum. Input Impedance = 1 Megohm 22pf
2. Rise Time = 10ns Maximum Source Impedance = 50 ohms

Part Number Table

Description	Part Number
Diode, Ultra-Fast, 1A, 50V	UF1A
Diode, Ultra-Fast, 1A, 100V	UF1B
Diode, Ultra-Fast, 1A, 200V	UF1D
Diode, Ultra-Fast, 1A, 400V	UF1G
Diode, Ultra-Fast, 1A, 600V	UF1J
Diode, Ultra-Fast, 1A, 800V	UF1K
Diode, Ultra-Fast, 1A, 1000V	UF1M

Notes:

International Sales Offices:

	AUSTRALIA – Farnell Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225		FINLAND – Farnell Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		ITALY – Farnell Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300		SPAIN – Farnell Tel No: 901 20 20 80 Fax No: 901 20 20 90
	AUSTRIA – Farnell Tel No: ++ 43 662 2180 680 Fax No: ++ 43 662 2180 670		FRANCE – Farnell Tel No: ++ 33 474 68 99 99 Fax No: ++ 33 474 68 99 90		MALAYSIA – Farnell-Newark Tel No: ++ 60 3 7873 8000 Fax No: ++ 60 3 7873 7000		SWEDEN – Farnell Tel No: ++ 46 8 730 50 00 Fax No: ++ 46 8 83 52 62
	BELGIUM – Farnell Tel No: ++ 32 3 475 2810 Fax No: ++ 32 3 227 3648		GERMANY – Farnell Tel No: ++ 49 89 61 39 39 39 Fax No: ++ 49 89 613 59 01		NETHERLANDS – Farnell Tel No: ++ 31 30 241 7373 Fax No: ++ 31 30 241 7333		SWITZERLAND – Farnell Tel No: ++ 44 204 64 64 Fax No: ++ 44 204 64 54
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	CHINA – Farnell-Newark Tel No: ++86 10 6238 5152 Fax No: ++86 10 6238 5022		HUNGARY – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		NORWAY – Farnell Tel No: 800 146 70 Fax No: 800 146 76		UK – CPC ++ 44 8701 202 530 ++ 44 8701 202 531
	CZECH REPUBLIC – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		INDIA – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		PORTUGAL – Farnell Tel No: ++ 34 93 475 8804 Fax No: ++ 34 93 474 5288		USA – Newark Tel No: 800 463 9275
	DENMARK – Farnell Tel No: ++ 45 44 53 66 44 Fax No: ++ 45 44 53 66 06		IRELAND – Farnell Tel No: ++ 353 1 830 9277 Fax No: ++ 353 1 830 9016		RUSSIA – Farnell Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		