



WEET Technology Company Limited

High Efficiency Rectifiers

UF2001 THRU UF2007

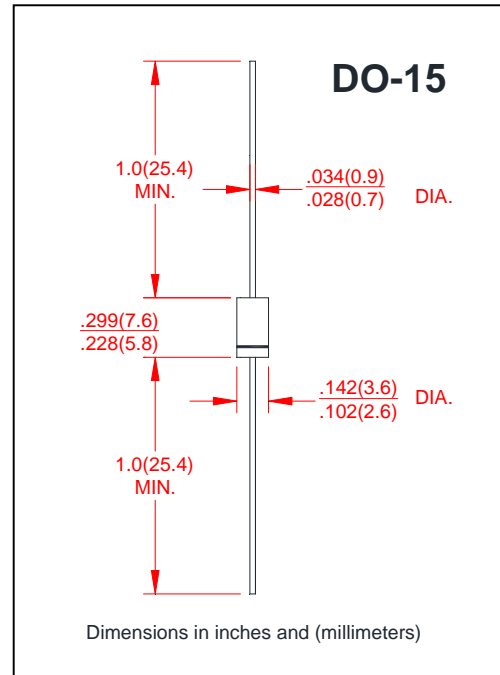
REVERSE VOLTAGE - **50 to 1000** Volts
FORWARD CURRENT - **2.0** Amperes

FEATURES

- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.015 ounces , 0.4 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

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%

CHARACTERISTICS	SYMBOL	UF2001	UF2002	UF2003	UF2004	UF2005	UF2006	UF2007	UF2008	UNIT	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	V	
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	V	
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	V	
Maximum Average Forward Rectified Current @ TA =50 °C	I(AV)	2.0								A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	60								A	
Peak Forward Voltage at 2.0A DC(Note1)	VF	1.0			1.3		1.7			V	
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	5.0								uA	
Maximum Reverse Recovery Time(Note 1)	TRR	50					75				nS
Typical Junction Capacitance (Note1)	CJ	50					30				pF
Typical Thermal Resistance (Note2)	RθJA	25								°C/W	
Operating Temperature Range	TJ	-50 to +125								°C	
Storage Temperature Range	TSTG	-50 to +150								°C	

NOTES: 1.Measured with IF=0.5A, IR=1A , IRR=0.25A

2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3.Thermal resistance junction to ambient



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RATING AND CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

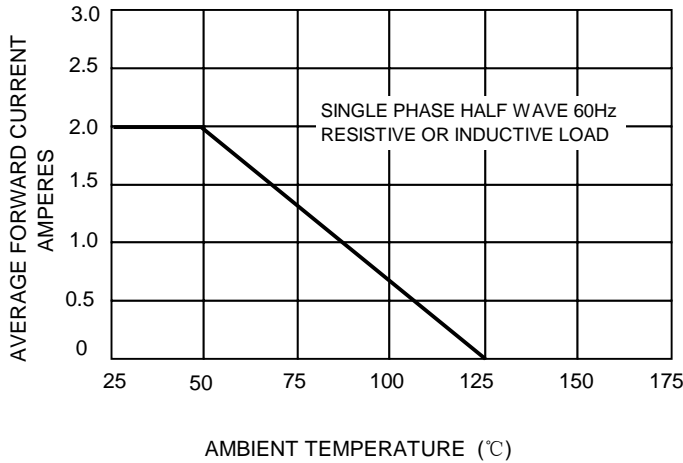


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

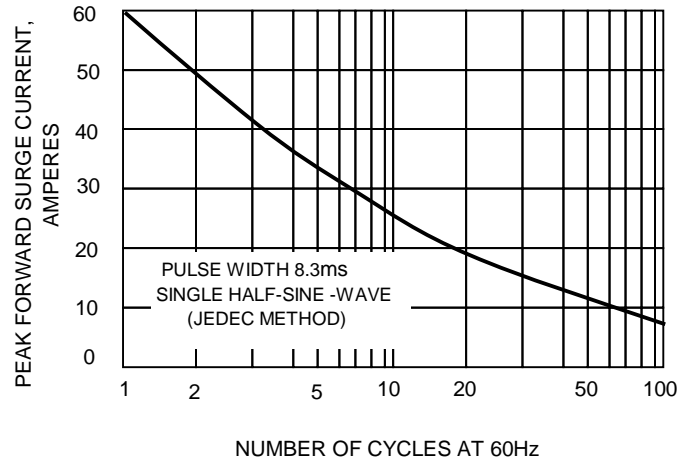


FIG.3 – TYPICAL JUNCTION CAPACITANCE

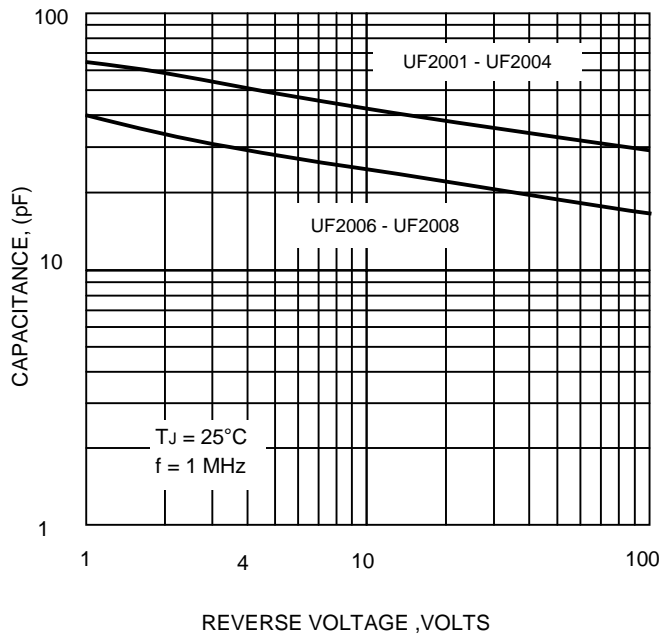
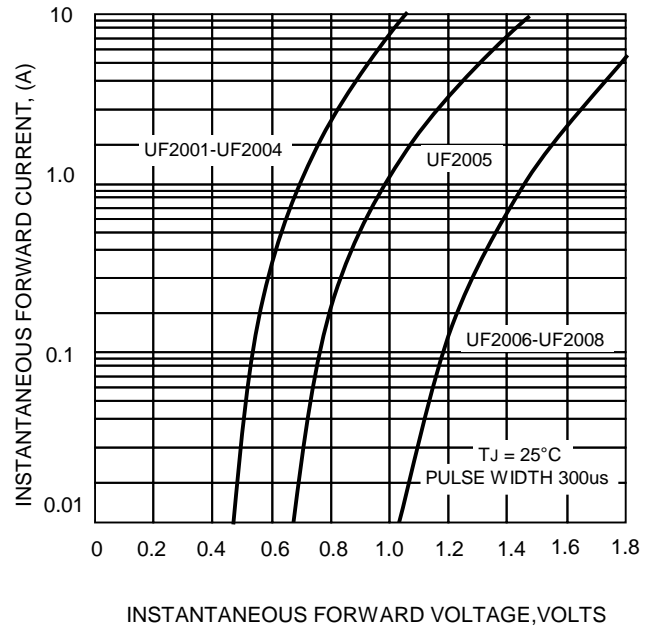


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

We Enhance Efficiency

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