

ULTRA FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 400 Volts
FORWARD CURRENT - 3.0 Amperes

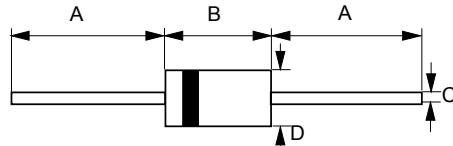
FEATURES

- 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-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.1 grams
- Mounting position : Any

DO-201AD



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	UF3001	UF3002	UF3003	UF3004	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	V
Maximum Average Forward Rectified Current @T _A =55°C	I _(AV)			3.0		A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}			150		A
Maximum forward Voltage at 3.0A DC	V _F			1.0	1.3	V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R			5	100	uA
Maximum Reverse Recovery Time (Note 1)	T _{RR}			50		ns
Typical Junction Capacitance (Note 2)	C _J			75		pF
Typical Thermal Resistance (Note 3)	R _{θJA}			20		°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, I_R=1A, I_{RR}=0.25A.

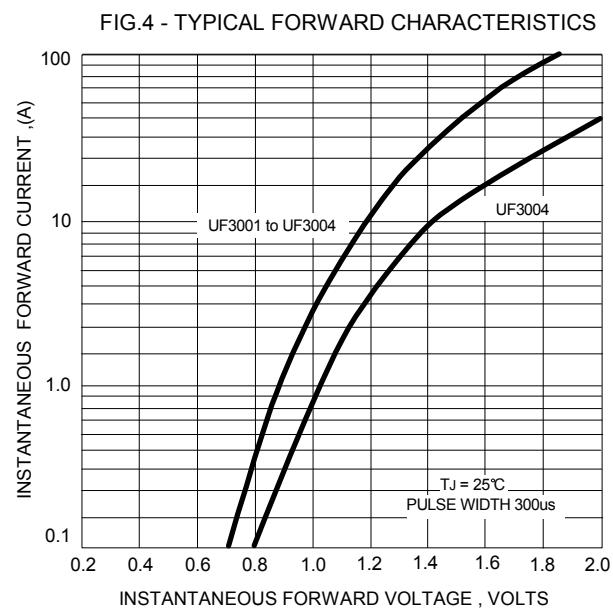
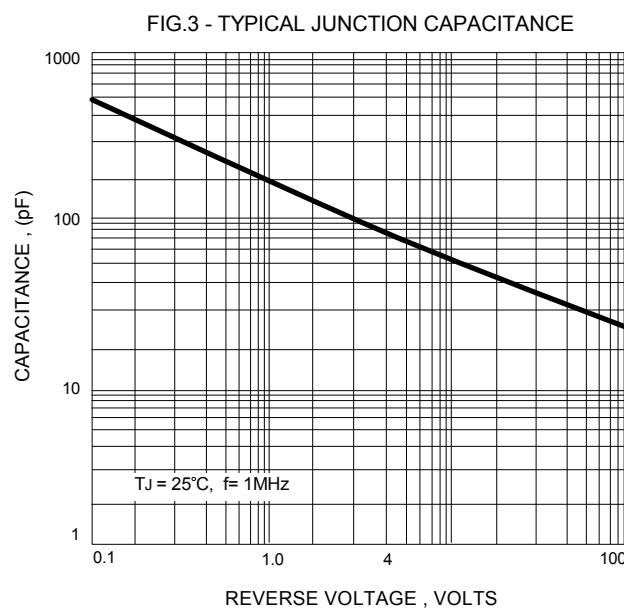
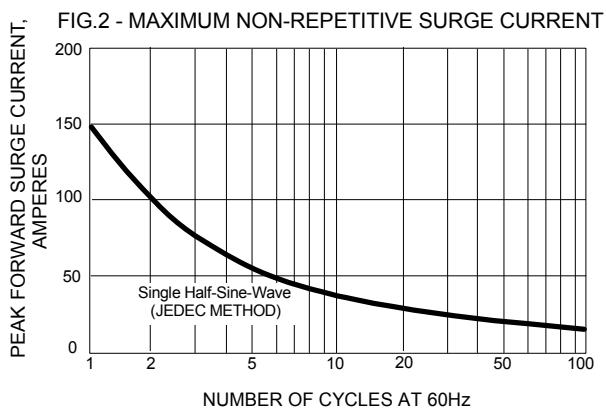
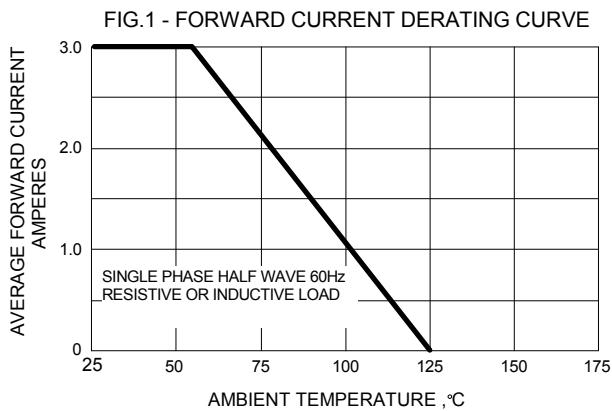
REV. 4, Sep-2010, KDCF02

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

3. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES
UF3001 thru UF3004

LITEON



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