

ULTRA FAST RECTIFIERS

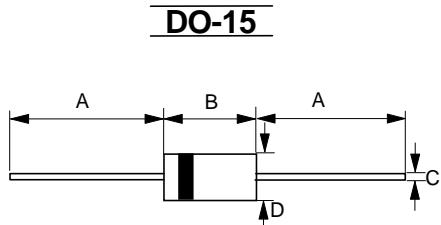
REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 2.0 Amperes

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



DO-15		
Dim.	Min.	Max.
A	25.4	-
B	5.80	7.60
C	0.71 Ø	0.86 Ø
D	2.60 Ø	3.60 Ø

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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	UF 2001M	UF 2002M	UF 2003M	UF 2004M	UF 2005M	UF 2006M	UF 2007M	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =50°C	I _(AV)				2.0				A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}				60				A
Maximum forward Voltage at 2.0A DC	V _F		1.0		1.3		1.7		V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R				5.0				uA
					100				
Maximum Reverse Recovery Time (Npte 1)	T _{RR}		50			75			ns
Typical Junction Capacitance (Note 2)	C _J		50			30			pF
Typical Thermal Resistance (Note 3)	R _{θJA}			25					°C/W
Typical Thermal Resistance (Note 4)	R _{θJC}			18					°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. 3, 06-Apr-2001, KDCD03

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

3. Thermal Resistance Junction to Ambient.

4. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES
UF2001M thru UF2007M

LITEON

