

UF1001 thru UF1007

ULTRA FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

FEATURES

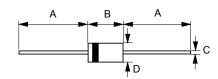
- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

MECHANICAL DATA

Case: JEDEC DO-41 molded plastic
Polarity: Color band denotes cathode
Weight: 0.012 ounces, 0.34 grams

• Mounting position : Any

DO-41



	DO-41					
Dim.	Min.	Max.				
Α	25.4	-				
В	4.10	5.20				
С	0.71 Ø	0.86 Ø				
D	2.00 Ø	2.70 Ø				
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	UF1001	UF1002	UF1003	UF1004	UF1005	UF1006	UF1007	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=55°C	I(AV)	1.0						Α	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	IFSM	30						А	
Maximum forward Voltage at 1.0A DC	VF		1.0		1.3		1.7		V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lR	5 100						uA	
Maximum Reverse Recovery Time (Note 1)	TRR	50 75					ns		
Typical Junction Capacitance (Note 2)	Сл	20 10					pF		
Typical Thermal Resistance (Note 3)	Reja Rejl Rejc	60 19 16					°C/W		
Operating Temperature Range	TJ	-55 to +125						°C	
Storage Temperature Range	Tstg	-55 to +150						°C	

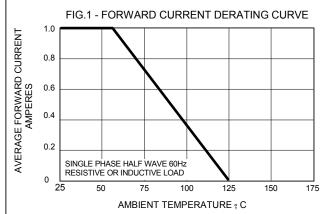
NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

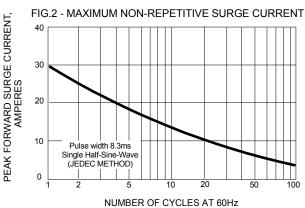
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

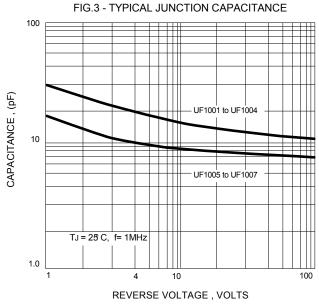
3. Thermal Resistance Junction to Ambient, Lead and Case.

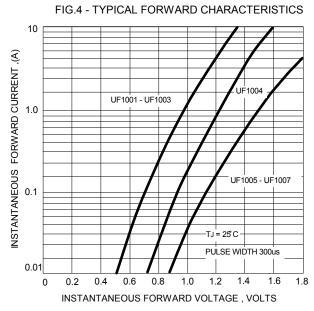
REV. 4, Sep-2010, KDCC02













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