

# **UF1001 thru UF1007**

#### **ULTRA FAST RECTIFIERS**

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

#### **FEATURES**

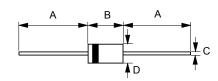
- Low cost
- Diffused junction
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0

### **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	V
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 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	0			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		

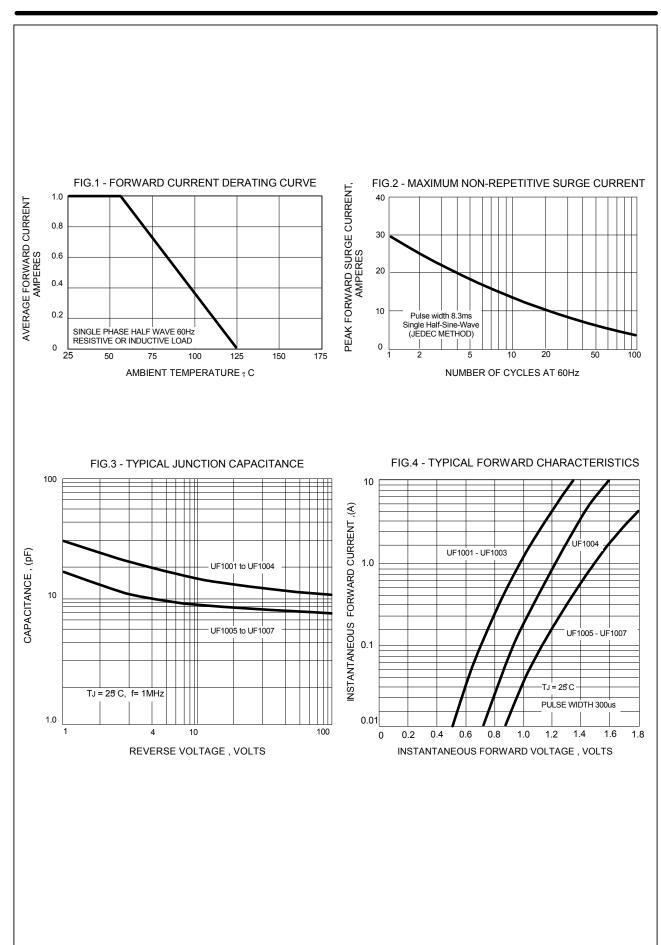
NOTES: 1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

 $2.\mbox{Measured}$  at  $1.0\mbox{MHz}$  and applied reverse voltage of  $4.0\mbox{V}$  DC.

 ${\bf 3. Thermal\ Resistance\ Junction\ to\ Ambient,\ Lead\ and\ Case.}$ 

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