

UF2001 THRU UF2007



**ULTRAFAST EFFICIENT
GLASS PASSIVATED RECTIFIER**
VOLTAGE : 50 TO 1000V CURRENT : 2.0A

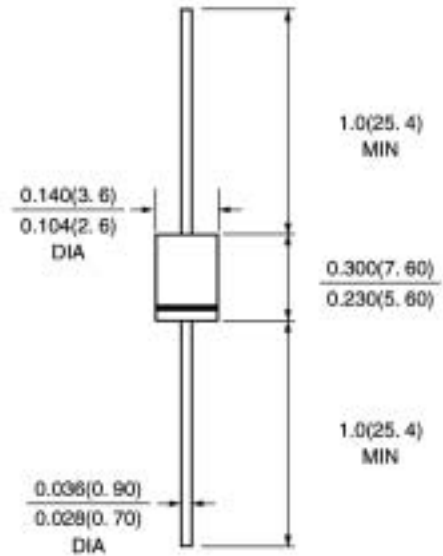
FEATURE

Low power loss
High surge capability
Glass passivated chip junction
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250 /10sec/0.375 lead length at 5 lbs tension

MECHANICAL DATA

Terminal : Plated axial leads solderable per MIL-STD 202E, method 208C
Case : Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity : color band denotes cathode
Mounting position : any

DO-15/DO-204AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25 °C, unless otherwise stated)

	SYMBOL	UF 2001	UF 2002	UF 2003	UF 2004	UF 2005	UF 2006	UF 2007	units
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 _d	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 lead length at Ta =50	I _{f(av)}	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	60.0							A
Maximum Forward Voltage at Forward current 2.0A Peak	V _f	1.0		1.3		1.7			V
Maximum DC Reverse Current Ta =25 at rated DC blocking voltage Ta =125	I _r	5.0			100.0				μ A μ A
Maximum Reverse Recovery Time (Note 1)	T _{rr}	50				75			nS
Typical Junction Capacitance (Note 2)	C _j	50				30			pF
Typical Thermal Resistance (Note 3)	R(ja)	25.0							/W
Storage and Operating Junction Temperature	T _{stg} ,T _j	-55 to +150							

Note :

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8 lead length, P.C. Board Mounted

