




2.0 Amp. Glass Passivated Ultrafast Recovery Rectifier

<p>DO-204AC (DO-15)</p> 	<p>Voltage 50V to 1000V</p> <p>Current 2 A at 55 °C</p> <p>HYPERECTIFIER®</p>
	<p>FEATURES</p> <ul style="list-style-type: none"> • Ultrafast recovery time for high efficiency • Low power losses • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s • AEC-Q101 qualified • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C <p>  RoHS COMPLIANT</p>
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: DO-204AC (DO-15). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test.
	<p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectifier of switching mode power supplies, inverters, freewheeling diodes, dc-to-dc converters, and other power switching application.</p>

Maximun Ratings and Electrical Characteristics at 25 °C

Marking Code		FUF 2001	FUF 2002	FUF 2003	FUF 2004	FUF 2005	FUF 2006	FUF 2007
V _{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
V _{RMS}	Maximum RMS voltage (V)	35	70	140	280	420	560	700
V _{DC}	Maximum DC blocking voltage (V)	50	100	200	400	600	800	1000
I _{F(AV)}	Forward current at Tamb = 55 °C	2 A						
I _{FRM}	Recurrent peak forward current	20 A						
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	75 A						
t _{rr}	Max. reverse recovery time from I _F = 0.5 A ; I _R = 1 A ; I _{RR} = 0.25 A	50 ns				75 ns		
C _j	Typical Junction Capacitance at 1 MHz and reverse voltage of 4V _{DC}	45 pF						
T _j	Operating temperature range	– 65 to + 150 °C						
T _{stg}	Storage temperature range	– 65 to + 150 °C						
E _{RSM}	Maximum non repetitive peak reverse avalanche energy. I _R = 1A ; T _j = 25 °C	20 mJ						

Electrical Characteristics at Tamb = 25 °C

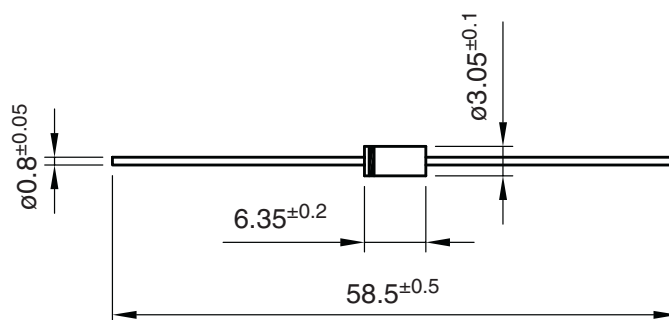
V _F	Maximum forward voltage drop at I _F = 2 A	1.3 V	1.7 V
I _R	Max. reverse current at V _{RRM} at 25 °C	5 µA	
R _{thj-a}	Max. thermal resistance (l = 10 mm.)	30 °C/W	

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Ordering information

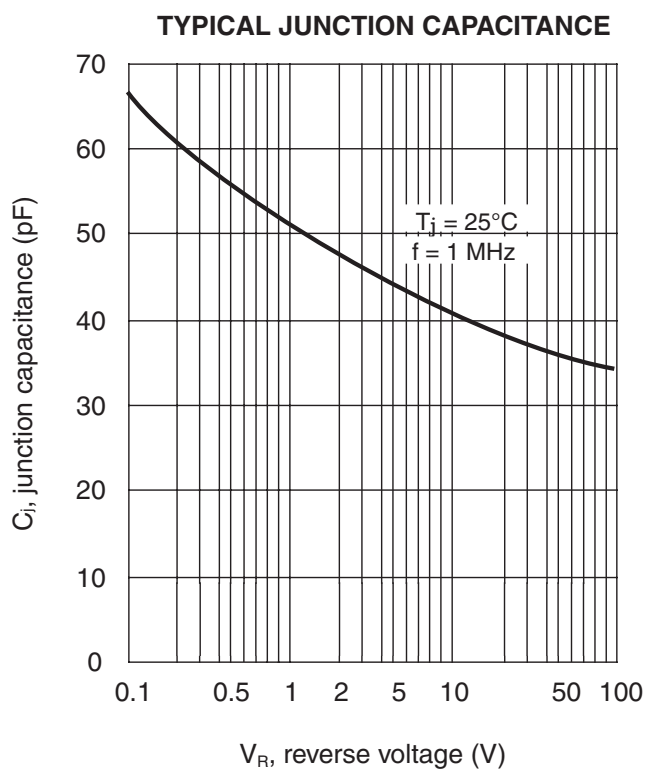
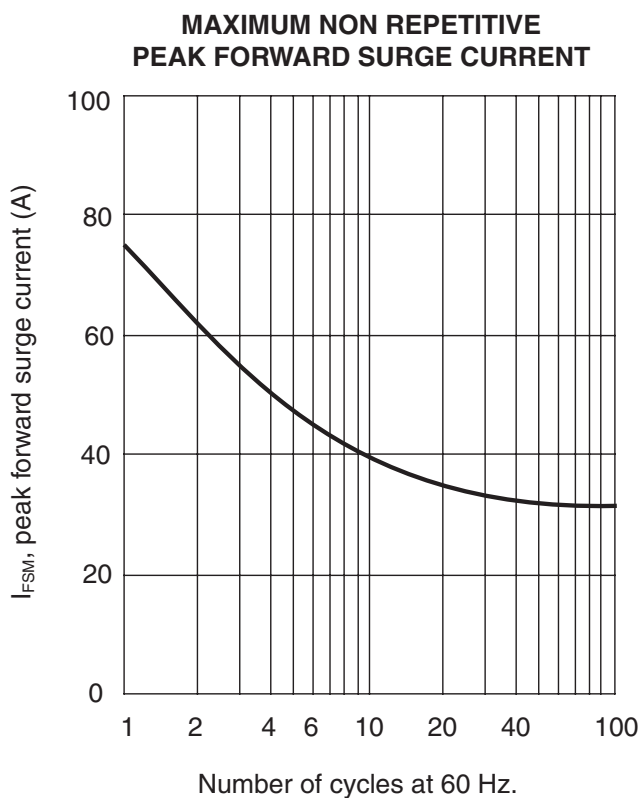
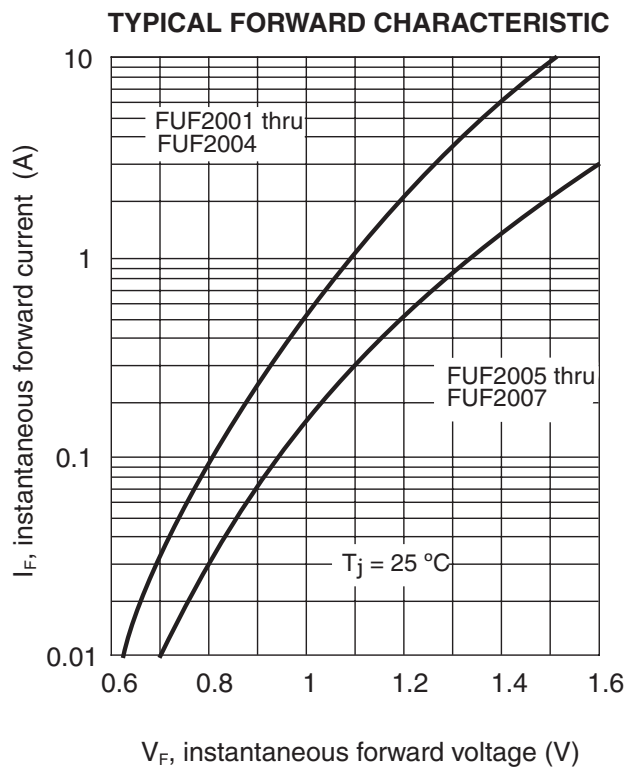
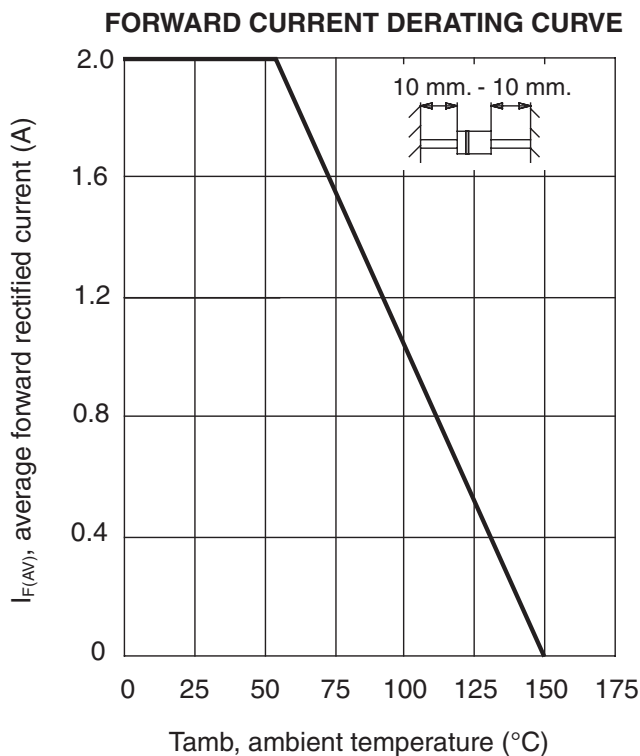
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FUF2005 AMP	AMP	AMMO BOX	4,000	0.378
FUF2005 TR	TR	14" diameter tape and reel	4,000	0.378

Package Outline Dimensions: (mm) DO-204AC (DO-15)



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Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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Revision History

Date	Revision	Description of Changes
12-Jul-1999	0	Original Data Sheet
15-Jun-2016	1	Format update

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