

# UF5400 THRU UF5404



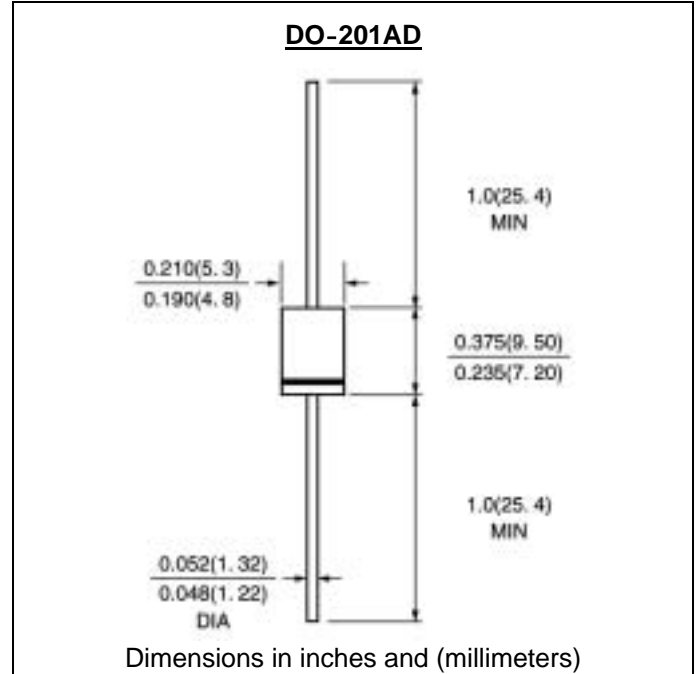
**ULTRAFAST EFFICIENT  
GLASS PASSIVATED RECTIFIER**  
VOLTAGE : 50 TO 400V      CURRENT : 3.0A

## FEATURE

Low power loss  
High surge capability  
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



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	50	100	200	300	400	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	210	280	V
Maximum DC blocking Voltage	V <sub>dc</sub>	50	100	200	300	400	V
Maximum Average Forward Rectified Current 3/8 lead length at Ta =55	I <sub>f(av)</sub>	3.0					A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	150.0					A
Maximum Forward Voltage at Forward current 3A Peak	V <sub>f</sub>	1.0					V
Maximum DC Reverse Current Ta =25 at rated DC blocking voltage Ta =125	I <sub>r</sub>	10.0 100.0					μA μA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	50					nS
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	45.0					pF
Typical Thermal Resistance (Note 3)	R(ja)	20.0					/W
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150					

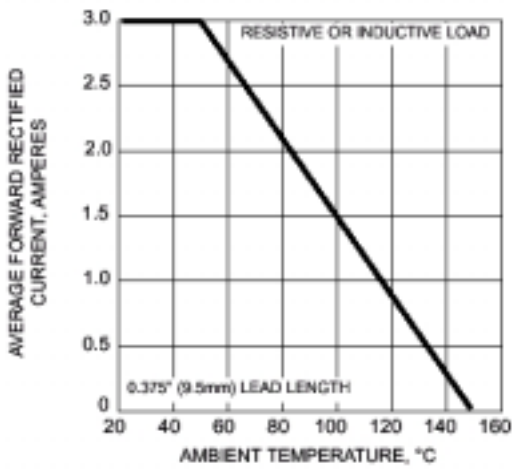
Note :

- Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =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

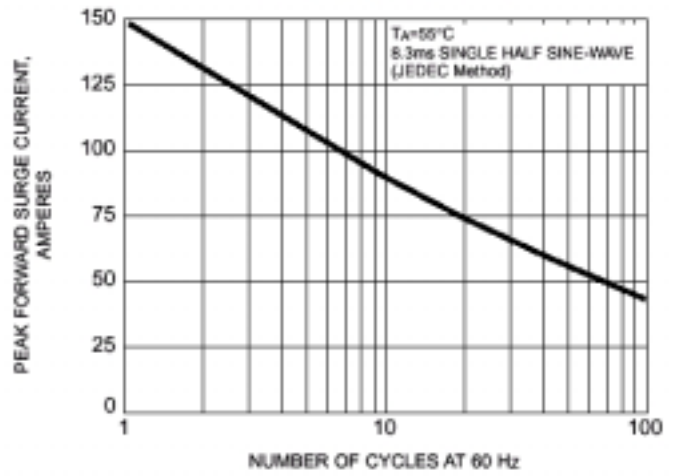
# RATINGS AND CHARACTERISTIC CURVES UF5400 THRU UF5404

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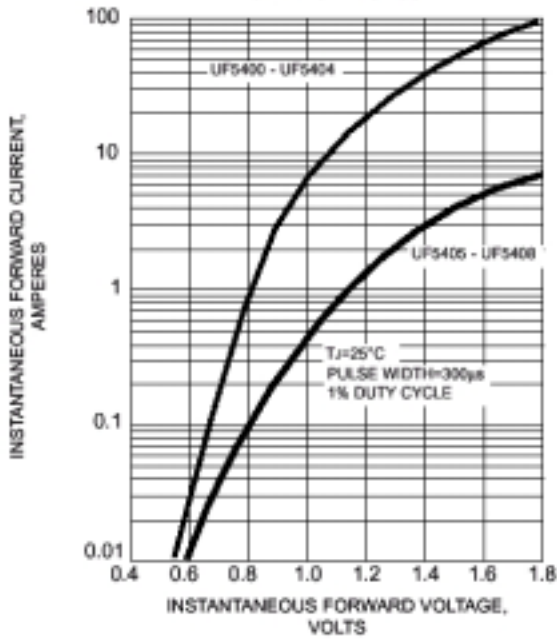
**FIG. 1 - MAXIMUM FORWARD CURRENT DERATING CURVE**



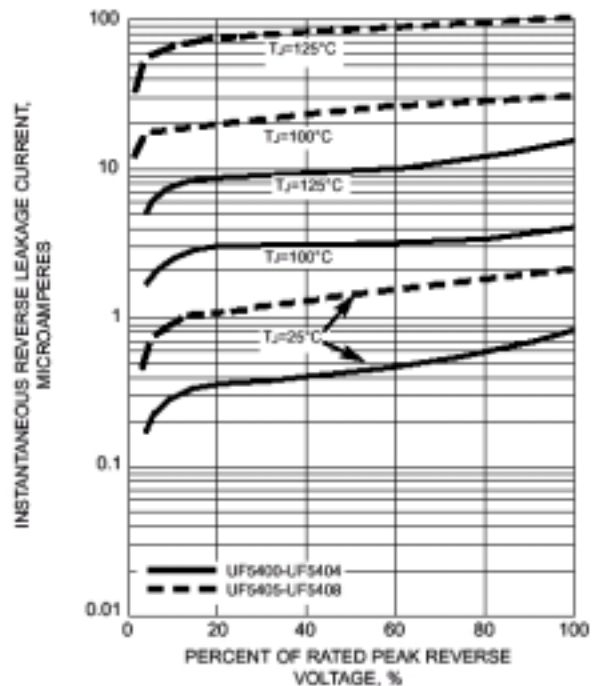
**FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG. 3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**

