

# UMD06

**SINGLE PHASE GLASSPASSIVATED  
ULTRAFAST RECOVERY  
SURFACE MOUNT BRIDGE RECTIFIER**  
**VOLTAGE: 600V** **CURRENT:0.8A**

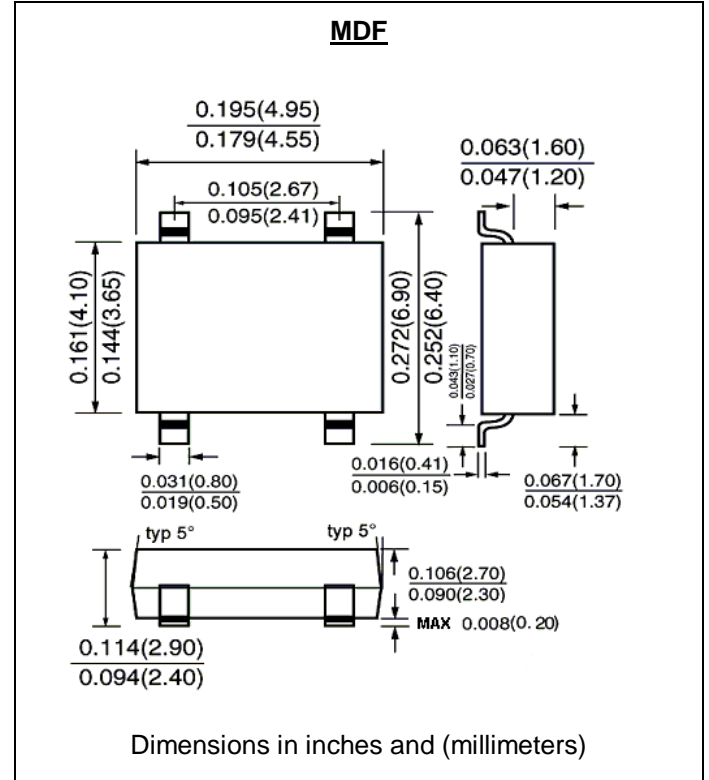


## FEATURE

For surface mount application  
 Reliable low cost construction utilizing molded plastic  
 Technique  
 Surge overload rating: 30A peak

## MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002  
 Case:UL-94 Class V-0 recognized Flame Retardant Epoxy  
 Polarity: Polarity symbol marked on body  
 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	UMD06	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	600	V
Maximum RMS Voltage	V <sub>rms</sub>	420	V
Maximum DC blocking Voltage	V <sub>DC</sub>	600	V
Maximum Average Forward Rectified Current at Ta =40°C	I <sub>f(av)</sub>	0.8	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30.0	A
Maximum Instantaneous Forward Voltage at forward current 0.4A	V <sub>f</sub>	1.25	V
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	75	nS
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I <sub>r</sub>	5.0 500.0	μA
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	15.0	pF
Storage and Operating Junction Temperature	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C

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 voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES UMD06

FIG.1 - FORWARD CURRENT DERATING CURVE

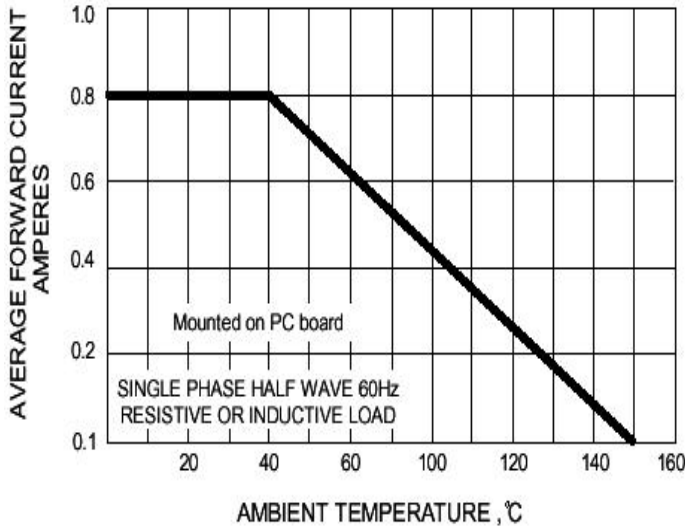


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

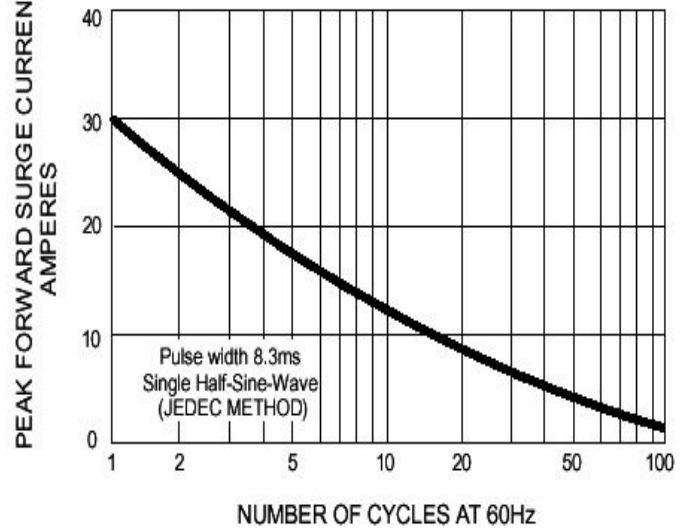


FIG.3 - TYPICAL JUNCTION CAPACITANCE

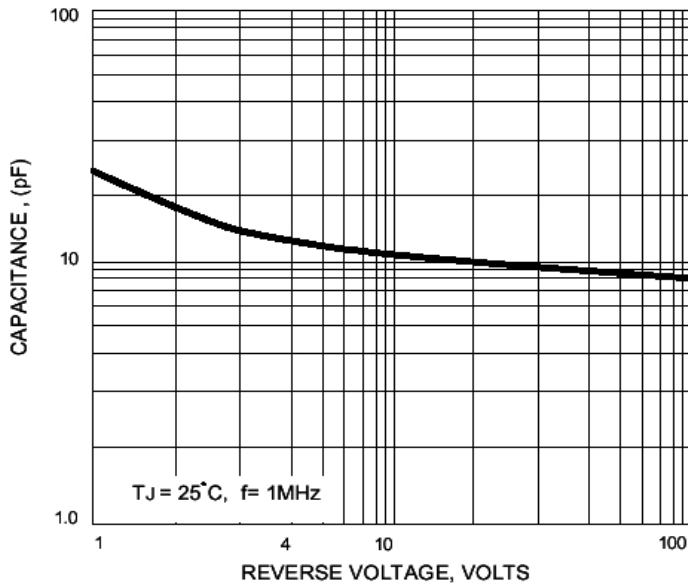


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

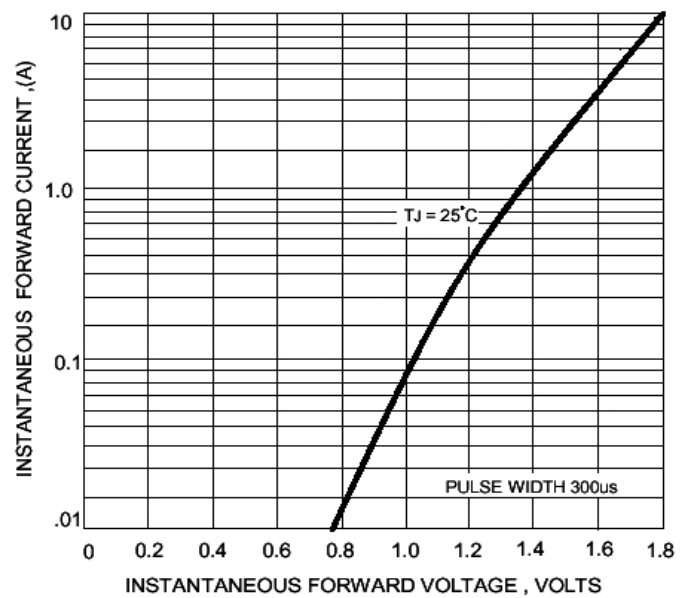


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

