

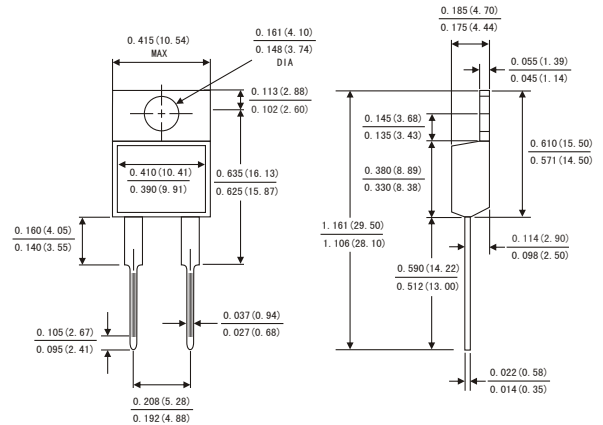
MU08T200 THRU MU08T600

GLASS PASSIVATED SUPER FAST RECTIFIER
Reverse Voltage - 200 -600 Volts
Forward Current - 10.0Amperes

FEATURES

Plastic package has Underwriters Laboratory Flammability Classification 94V-0
Fast switching for high efficiency
Low forward voltage drop
Single rectifier construction
High surge capability
For use in low voltage ,high frequency inverters,
free wheeling ,and polarity protection applications
High temperature soldering guaranteed:260 C/10 seconds,
0.25"(6.35mm)from case
Component in accordance to RoHS 2002/95/EC and
WEEE 2002/96/EC

TO-220AC



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: JEDEC TO-220AC molded plastic body
Terminals: Lead solderable per MIL-STD-750,method 2026
Polarity: As marked
Mounting Position: Any
Weight: 0.08ounce, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

		Symbols	MU08T200	MU08T400	MU08T600	Units
Maximum repetitive peak reverse voltage		VRRM	200	400	600	Volts
Maximum RMS voltage		VRMS	140	280	420	Volts
Maximum DC blocking voltage		VDC	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)		l(AV)	8.0			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		lFSM	125			Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)		VF	0.975	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta = 25℃	IR	5	10		uA
	Ta = 125℃		500			
Maximum Reverse Recovery Time (Note 2)		Trr	20			ns
Typical thermal resistance (Note 3)		RθJC	2.5			℃/W
Operating junction temperature range		TJ	-40 to +150			℃
Storage temperature range		TSTG	-40 to +150			℃

Notes: 1. Pulse test: 300 μ s pulse width,1% duty cycle
2. Reverse recovery test conditions $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$
3. Thermal resistance from junction to case

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RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

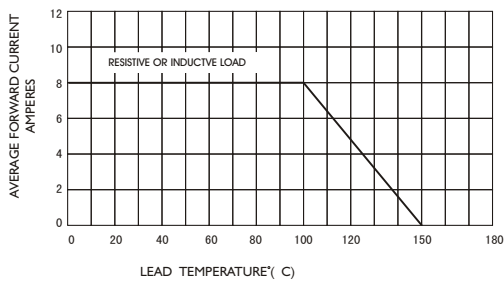


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

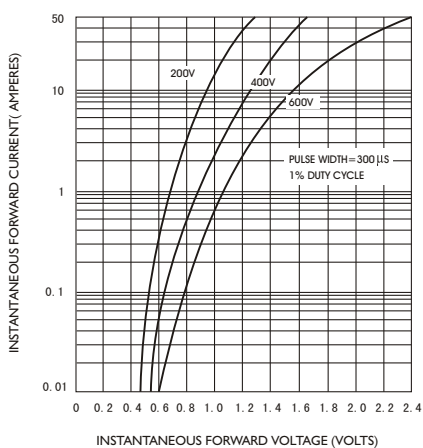


FIG.5-TYPICAL JUNCTION CAPACITANCE

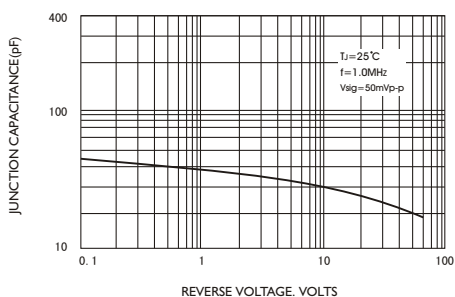


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

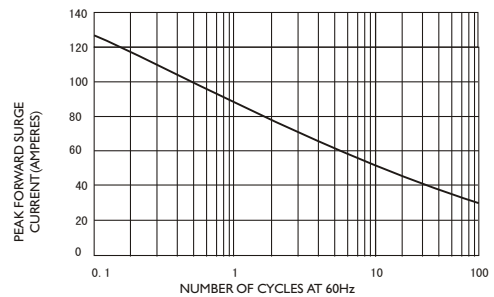


FIG.4-TYPICAL REVERSE CHARACTERISTICS

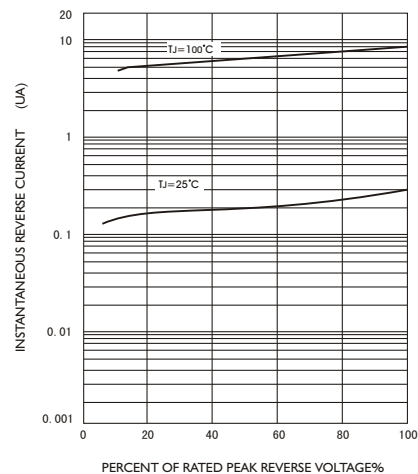


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

