



星合电子
XINGHE ELECTRONICS

MUR520 THRU MUR560 (SINGLE CHIP)

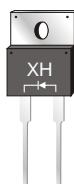
GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts

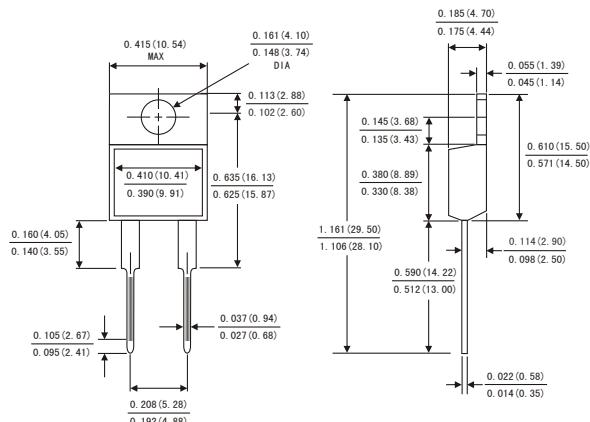
Forward Current - 10.0 Amperes

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	MUR520	MUR540	MUR560	Units
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	200	400	600	Volts
Maximum average forward rectified current(see Fig.1)	I _(AV)		5.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}		75		Amps
Maximum instantaneous forward voltage at 10.0 A(Note 1)	V _F	0.975	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C T _A =125°C	I _R	5 500		uA
Maximum Reverse Recovery Time (Note 2)	T _{rr}		35		ns
Typical thermal resistance (Note 3)	R _{θJC}		2.5		°C/W
Operating junction temperature range	T _J		-40 to +150		°C
Storage temperature range	T _{STG}		-40 to +150		°C

Notes: 1. Pulse test: 300μ s pulse width,1% duty cycle

2. Reverse recovery test conditions I_f=0.5A,I_r=1.0A, I_{rr}=0.25A

3. Thermal resistance from junction to case



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FIG.1-FORWARD CURRENT DERATING CURVE

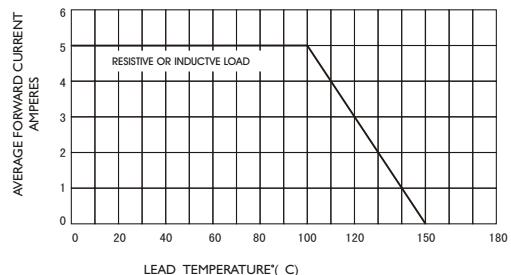


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

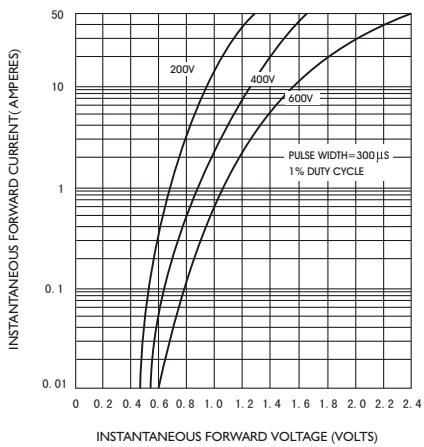


FIG.5-TYPICAL JUNCTION CAPACITANCE

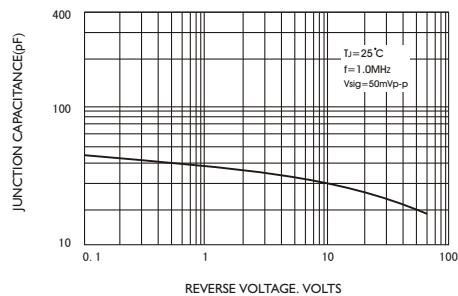


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

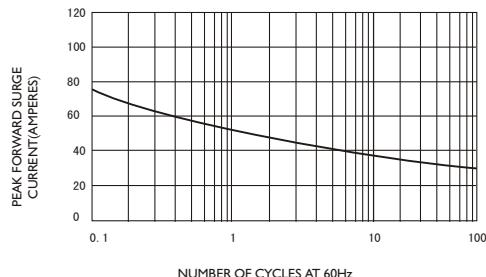


FIG.4-TYPICAL REVERSE CHARACTERISTICS

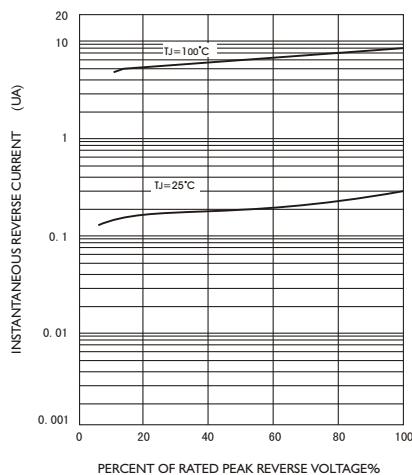


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

