

MUR2020D1 THRU MUR2060D1

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 200 -600 Volts

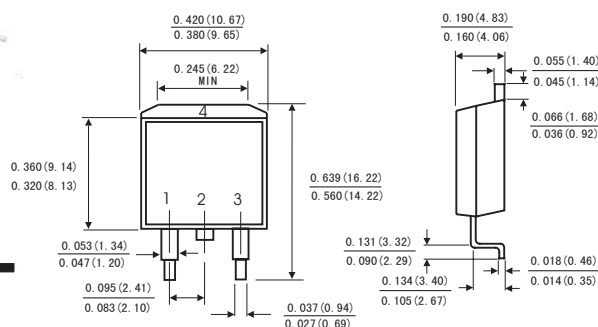
Forward Current - 20.0Amperes

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 2011/65/EU



TO-263AB D2PAK



MECHANICAL DATA

- Case: JEDEC TO-263AB molded plastic body
- Terminals: Solderable per MIL-STD-202,method 208
- Polarity: As marked
- Mounting Position: Any

Dimensions in inches and (millimeters)

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	MUR 2020D1	MUR 2040D1	MUR 2060D1	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)	Per leg	I(AV)	10.0 20.0			Amps
	Total device					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	150			Amps
Maximum instantaneous forward voltage at 10.0 A per leg(Note 1)		VF	0.975	1.3	1.7	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta =25°C	IR	5			μA
	Ta =125°C		250			
Maximum Reverse Recovery Time (Note 2)		trr	35			ns
Typical thermal resistance (Note 3)		RθJC	2.5			°C/W
Operating junction temperature range		TJ	-55 to+150			°C
Storage temperature range		TSTG	-55 to+150			°C

- Notes:**
1. Pulse test: 300 μs 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

RATINGS AND CHARACTERISTIC CURVES MUR2020D1 THRU MUR2060D1

FIG.1-FORWARD CURRENT DERATING CURVE

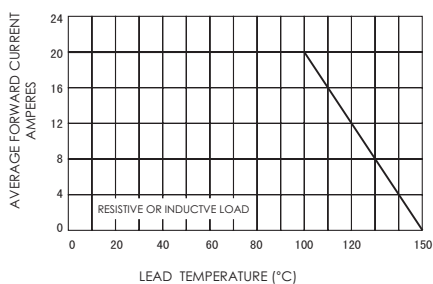


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

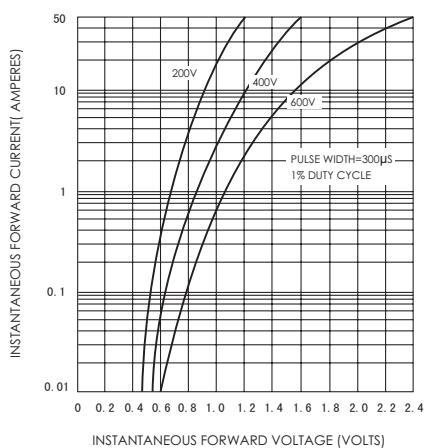


FIG.5-TYPICAL JUNCTION CAPACITANCE

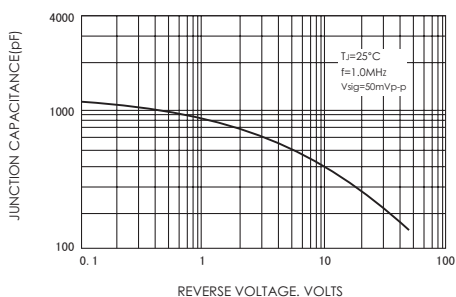


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

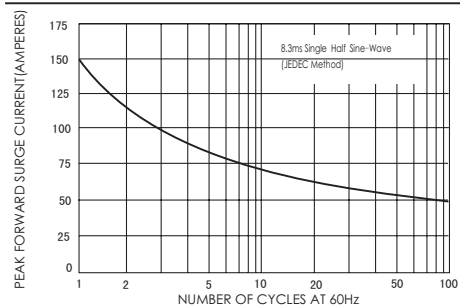


FIG.4-TYPICAL REVERSE CHARACTERISTICS

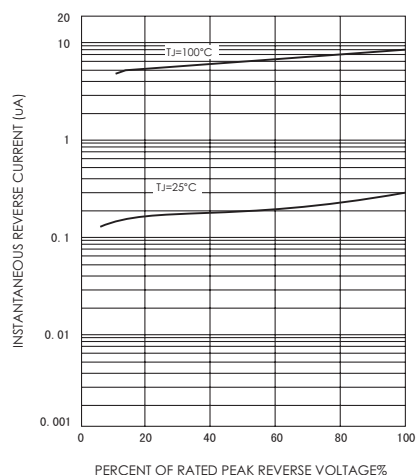


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

