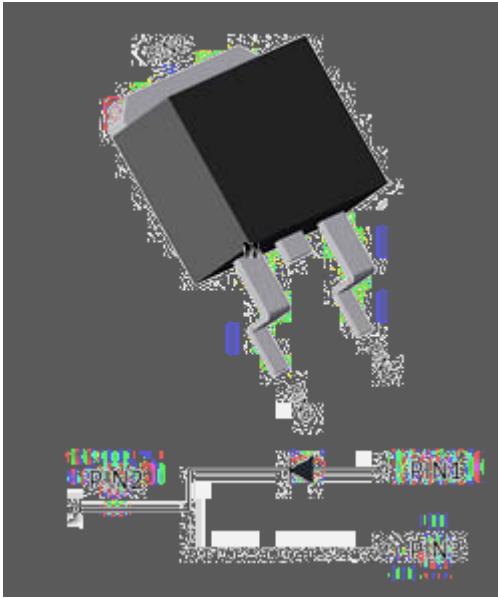


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- Low forward Voltage drop
- Fast reverse recovery time
- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability

### Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

### Mechanical Data

**Package:** TO-263

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

**Polarity:** As marked

### Maximum Ratings (T<sub>j</sub>=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MURB820
Device marking code			MURB820
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	200
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>c</sub> (FIG.1)	I <sub>O</sub>	A	8
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T <sub>j</sub> =25	I <sub>FSM</sub>	A	100
Current Squared Time @1ms t 8.3ms T <sub>j</sub> =25	I <sup>2</sup> t	A <sup>2</sup> s	41
Storage Temperature	T <sub>stg</sub>		-55 ~ +175
Junction Temperature	T <sub>j</sub>		-55 ~ +175
Typical Junction capacitance @4V,1MHz	C <sub>j</sub>	pF	70

085%

v(OHFWULFDO & KDUDFWHULVWLFV

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' & UHYHUVH FXUUHQW DW UDWHG ' & EORFNLQJ YROWDJH	550		950 9550 7M -			
5HYHUVH 5HFRYHU\ 7LPH	55	QV	\$ 50, \$ 55 \$ 7M -			
3HDN UHFRYHU\ FXUUHQW	550	\$	7M - 7M -	\$ GL GW 950 9	\$ XV	
5HYHUVH UHFRYHU\ FKDUJH		Q &	7M - 4UU 7M -			

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**Characteristics (Typical)**



**Outline Dimensions**

TO-263

**Suggested Pad Layout**



# MURB820

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## Disclaimer

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