



### 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>a</sub>=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBRBL30150CT
Device marking code			MBRBL30150CT
Repetitive Peak Reverse Voltage	VRRM	V	150
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>a</sub> FIG 1	IO	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T <sub>a</sub> =25	IFSM	A	220
Current Squared Time @1ms t 8.3ms T <sub>j</sub> =25 rating of per diode	I <sup>2</sup> t	A <sup>2</sup> s	200
Storage Temperature	Tstg		-55 ~ +150
Junction Temperature	T <sub>j</sub>		-55 ~ +150

### Electrical Characteristics T<sub>a</sub>=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRBL30150CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=10.0A	0.84
Maximum DC reverse current at rated DC blocking voltage	IRRM1	mA	VRM=VRRM T <sub>a</sub> =25	0.1

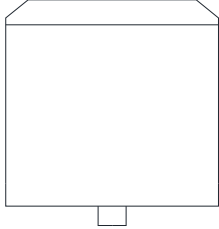
### Thermal Characteristics T<sub>a</sub>=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBRBL30150CT
		W	2.0

**MBRBL30150CT**



Outline Dimensions





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