

Schottky Diodes

Features

- " High frequency operation
- " Low forward voltage drop
- " High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- " Guard ring for enhanced ruggedness and long term reliability
- " Meets MSL level 1, per J-STD-020, LF maximum peak of 260

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 (Ta=25 Unless otherwise specified Å

PARAMETER	SYMBOL	UNIT	MBRBL3060CT
Device marking code			MBRBL3060CT
Repetitive Peak Reverse Voltage	VRRM	V	60
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25	IO	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	IFSM	A	200

Electrical Characteristics Å Ta=25 Unless otherwise specified Å

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRBL3060CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15.0A	0.6
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM=VRRM Ta=25	0.2
	IRRM2		VRM=VRRM Ta=100	30

MBRBL3060CT

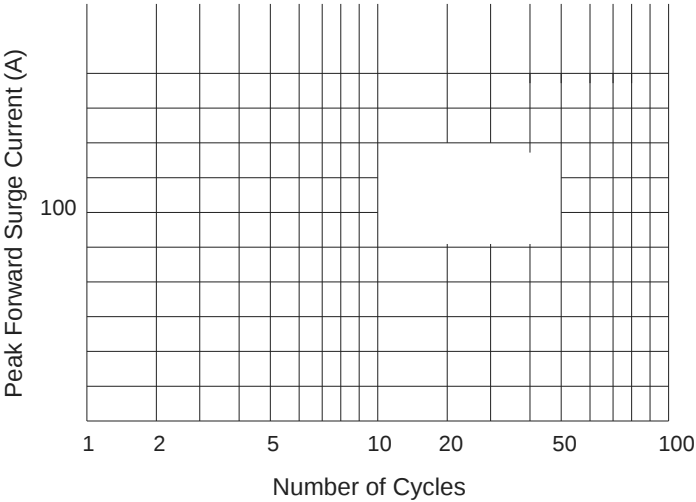
Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBRBL3060CT
Thermal Resistance	Between junction and case	R_{J-C}	$^{\circ}W$	2.0

Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRBL3060CT	Approximate 1.43	50	2000	8000	Tube
MBRBL3060CT	Approximate 1.43	1000	2000	10000	Reel

Characteristics (Typical)



Outline Dimensions

