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	V_{RRM}	V	60
Average Rectified Output Current @60Hz sine wave, R-load, T_a=25	I_O	A	30
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_a=25	I_{FSM}	A	200

Electrical Characteristics ÄTa=25 Unless otherwise specified Å

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRBL3060CT
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=15.0A	0.6
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	V_{RM}=V_{RRM} T_a=25	0.2
	I_{RRM2}		V_{RM}=V_{RRM} T_a=100	30

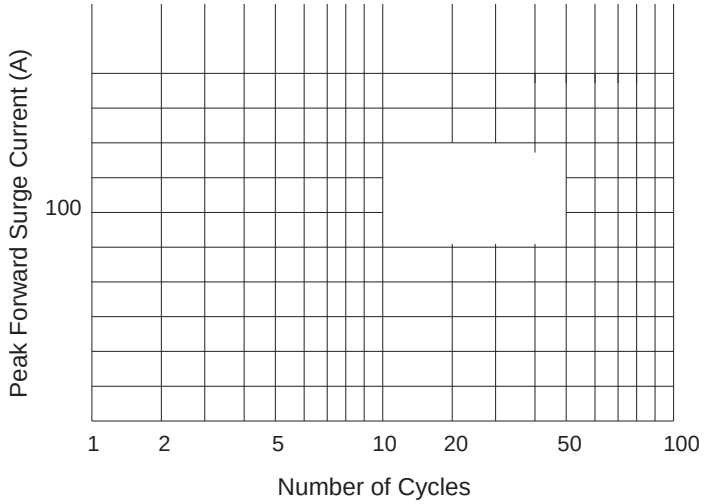
vThermal Characteristics ÄTa=25 Unless otherwise specified Å

PARAMETER		SYMBOL	UNIT	MBRBL3060CT
Thermal Resistance	Between junction and case	R J-C	/W	2.0

vOrdering Information (Example)

PREFERED 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

vCharacteristics (Typical)



vOutline Dimensions