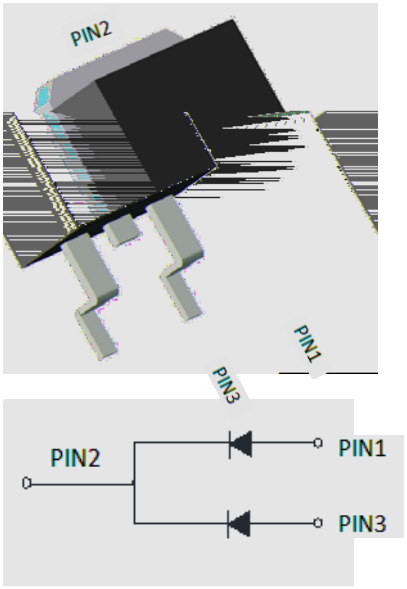
Schottky Diodes



Features

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
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 (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MBRBU20100CTA
Device marking code			MBRBU20100CTA
Repetitive Peak Reverse Voltage	V_{RRM}	V	100
Average Rectified Output Current @60Hz sine wave, R-load, Ta FIG 1	I_O	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	I_{FSM}	A	250
Current Squared Time @1ms t 8.3ms Tj=25	I^2t	A^2s	260
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	Tj		-55 ~ +150

Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRBU20100CTA
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=10.0A	0.65
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ Ta=25	0.2
	I_{RRM2}		$V_{RM}=V_{RRM}$ Ta=100	50

Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBRBU20100CTA
Thermal Resistance	Between junction and case	R_{J-C}	/W	2.0

Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRBU20100CTA	Approximate 1.43	50	2000	8000	Tube
MBRBU20100CTA	Approximate 1.43	1000	2000	10000	Reel

Characteristics (Typical)

FIG1:Io -Tc Curve

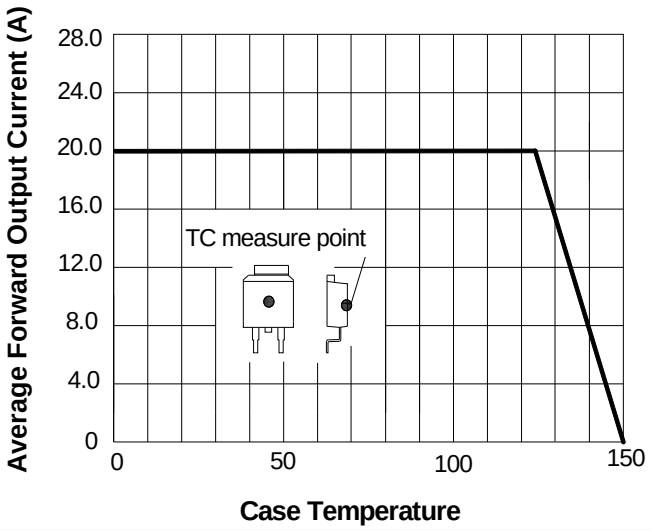


FIG2:Surge Forward Current Capability

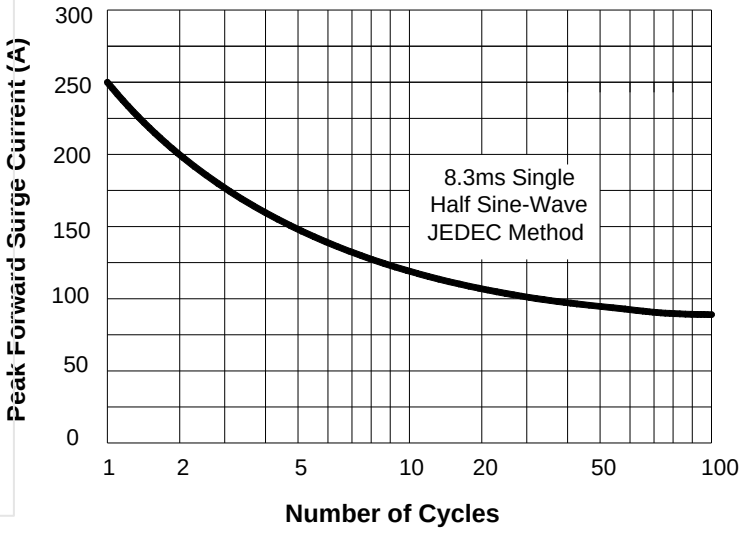


FIG3: Forward Voltage

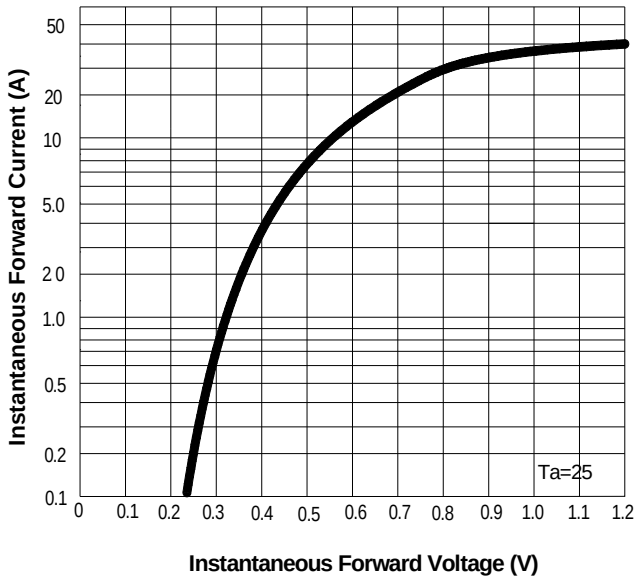
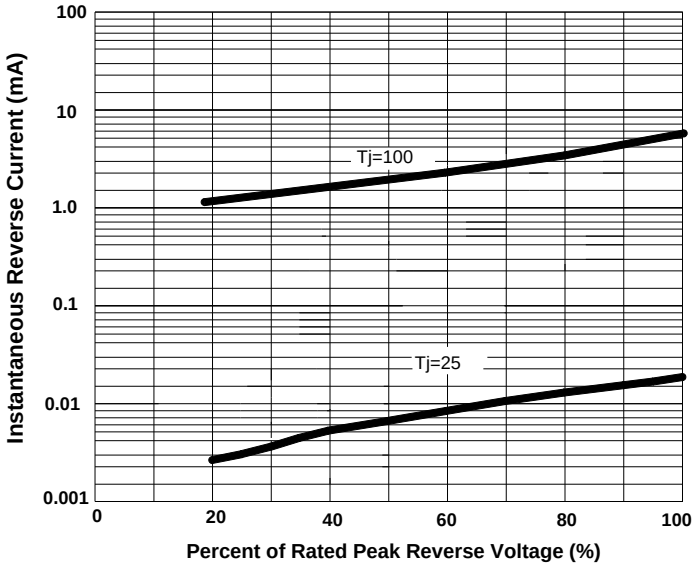


FIG.4: Typical Reverse Characteristics



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