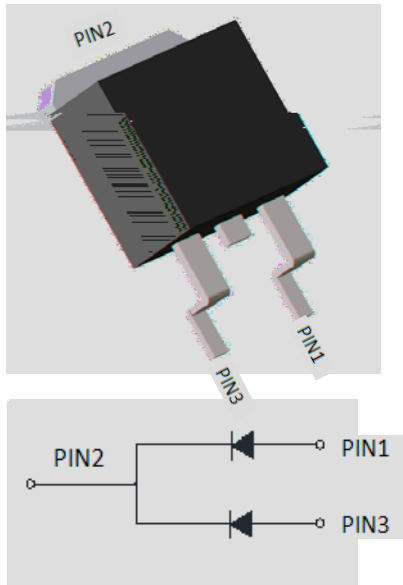


Schottky Diodes



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
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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

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	I_o	A	40
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_j=25$	I_{FSM}	A	300
Current Squared Time @1ms≤t≤8.3ms $T_j=25$	I^2t	A ² s	373
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	T_j		-55 ~ +150

■Electrical Characteristics $T_j=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRB4060CT-F1-W5094HF
Maximum instantaneous forward voltage drop per diode	V_{FM}^1	V	$I_{FM}=20.0A$	0.73
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}^2	mA	$V_{RM}=V_{RRM}$ $T_j=25$	0.1
	I_{RRM2}^2		$V_{RM}=V_{RRM}$ $T_j=125$	20

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



MBRB4060CT-F1-W5094HF

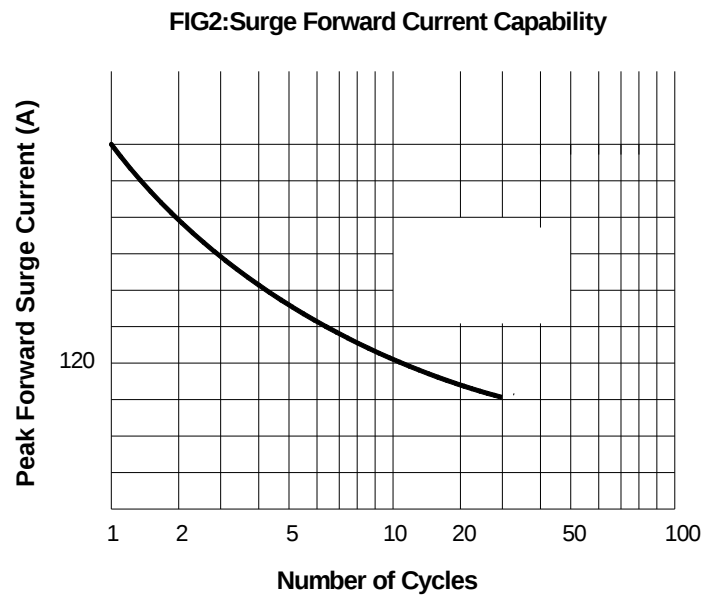
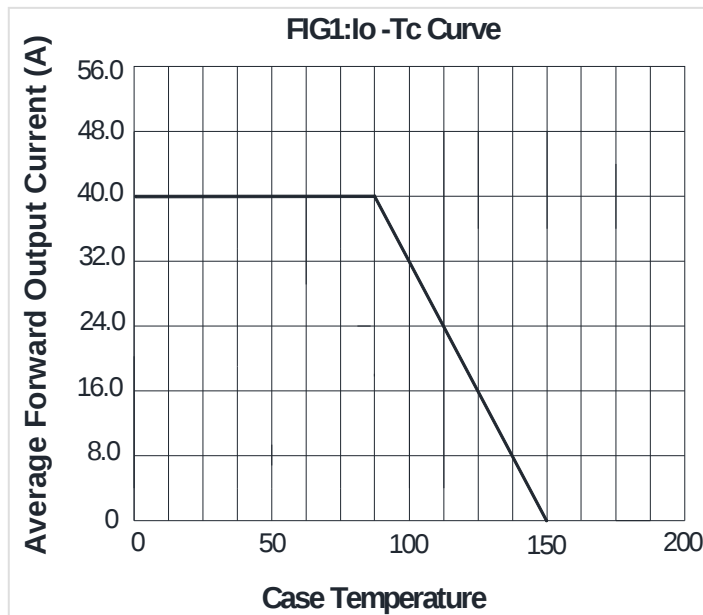
■ Thermal Characteristics $T_j=25$ Unless otherwise specified

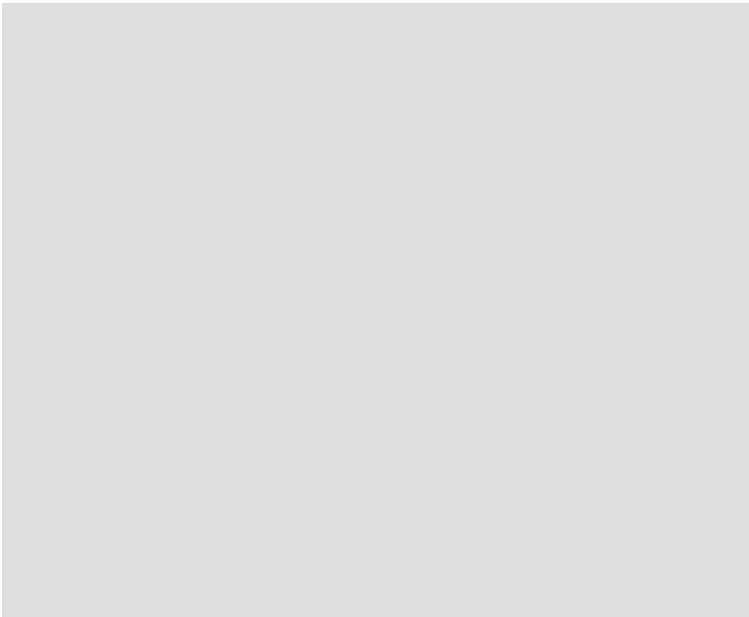
PARAMETER		SYMBOL	UNIT	MBRB4060CT-F1-W5094HF
Thermal Resistance	Between junction and case	$R_{\theta j-c}$	/W	4.0

■ Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MBRB4060CT-F1-W5094HF	Approximate 1.43	1000	2000	10000	Reel

■ Characteristics (Typical)







Disclaimer

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