



MB6FU

SCHOTTKY BRIDGE

1.0A SCHOTTKY BRIDGE RECTIFIER

DESCRIPTION

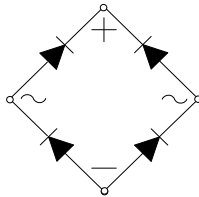
The UTC **MB6FU** is a schottky bridge rectifiers, it uses UTC's advanced technology to provide customers with high surge current capability, etc.

The UTC **MB6FU** is suitable for General purpose use in ac-to-dc bridge full wave rectification for LED bulb and telecommunication.

FEATURES

- * Low leakage
- * Surge overload rating-30A peak
- * Designed for Surface Mount Application

SYMBOL

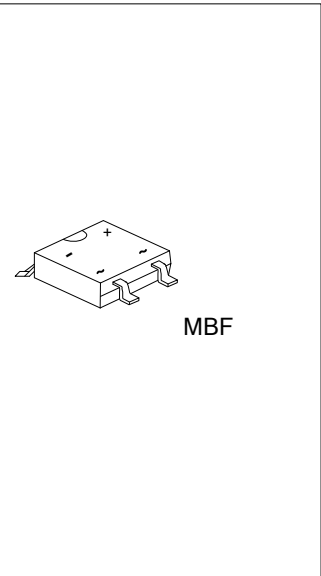
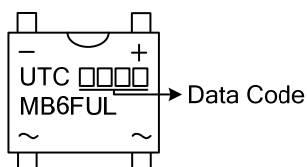


ORDERING INFORMATION

Ordering Number	Package	Packing
MB6FUL-MBF-R	MBF	Tape Reel

<div><div>MB6FUL-MBF-R</div><div><div></div><div></div><div></div></div><div>(1)Packing Type</div><div>(2)Package Type</div><div>(3)Green Package</div></div>	<div>(1) R: Tape Reel</div> <div>(2) MBF: MBF</div> <div>(3) L: Lead Free</div>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

PARAMETER	SYMBOL	RATINGS	UNIT
DC Blocking Voltage	V_{DC}	600	V
RMS Voltage	V_{RMS}	420	V
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Rectified Current $T_A=40^{\circ}\text{C}$ (Note 2)	I_O	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	35	A
Operating Junction Temperature Range	T_J	$-55\sim+125$	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	$-55\sim+150$	$^{\circ}\text{C}$

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. Mounted on glass epoxy pc board with 1.3mm^2 solder pad.

■ THERMAL DATA

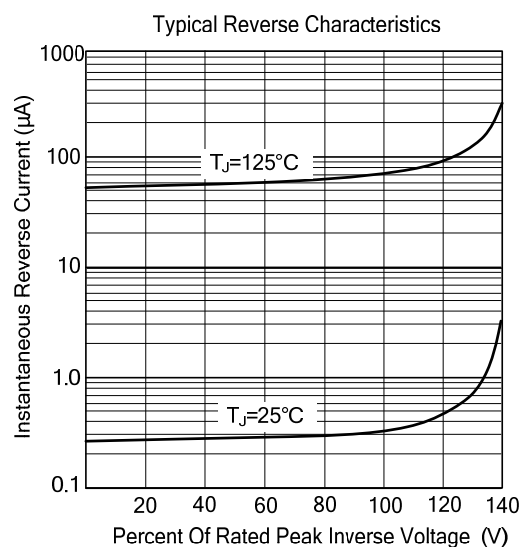
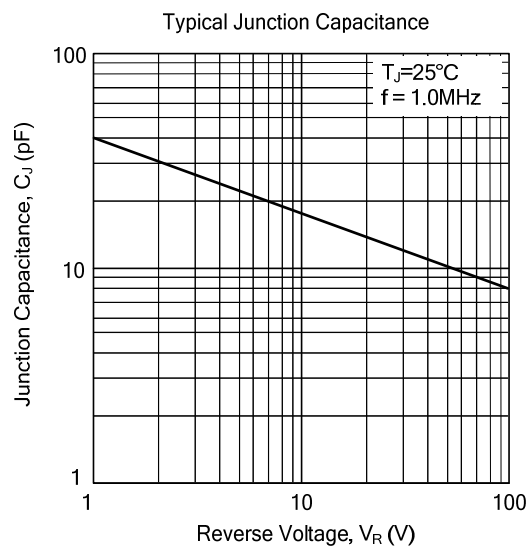
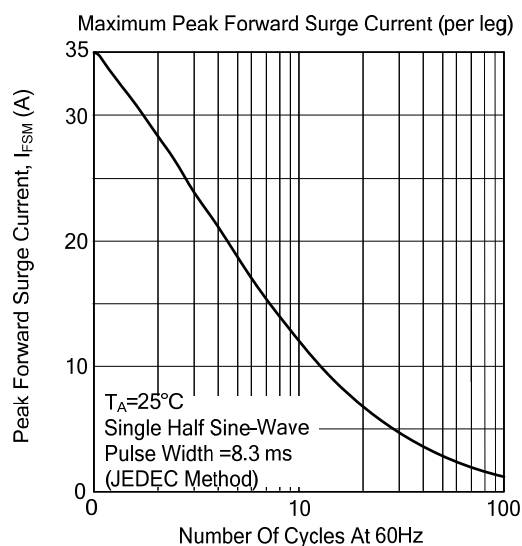
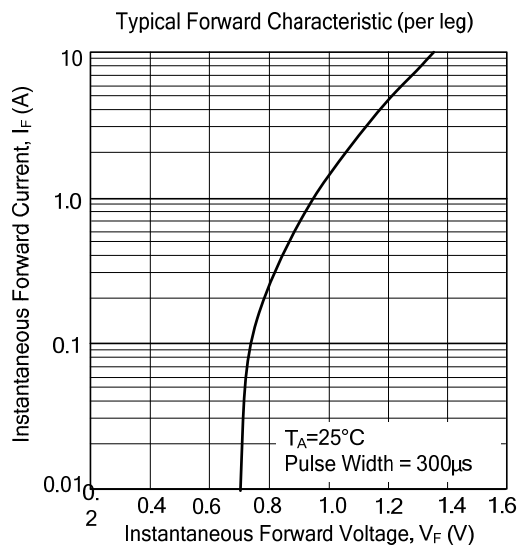
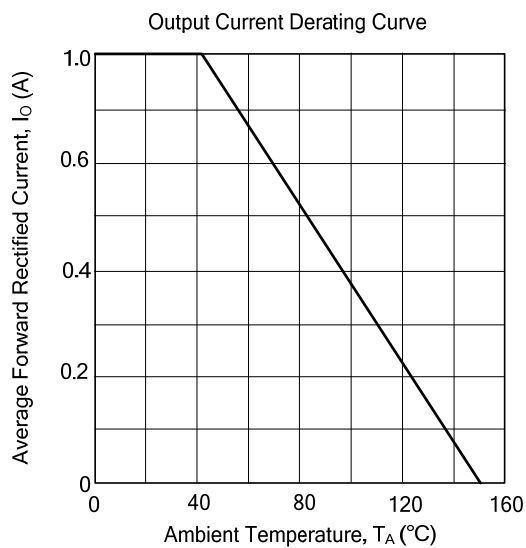
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	60	$^{\circ}\text{C/W}$

Note: Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Instantaneous Forward Voltage	V_F	$I_F=1.0\text{A}$			1.1	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_J=25^{\circ}\text{C}$			5.0	μA
		$T_J=125^{\circ}\text{C}$			500	μA

TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.