



### Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

### Mechanical Data

**Package:** ITO-220AB

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	MBRU2080FCTA
Device marking code			MBRU2080FCTA
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	80
Average Rectified Output Current @60Hz sine wave, R-load, $T_a$ FIG 1	$I_o$	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$	$I_{FSM}$	A	250
Current Squared Time @1ms t 8.3ms $T_j=25$ rating of per diode	$I^2t$	A <sup>2</sup> s	260
Storage Temperature	$T_{stg}$		-55 ~ +150

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBRU2080FCTA
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	$V_{RM}=V_{RRM}$ $T_a=25$	0.2
	$I_{RRM2}$		$V_{RM}=V_{RRM}$ $T_a=100$	50

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

Note2:Pulse test:pulse width 40mS



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**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER	SYMBOL	UNIT
Thermal Resistance Between junction and cav	$\theta_{jc}$	$^{\circ}\text{C}/\text{W}$



**Outline Dimensions**



# MBRU2080FCTA

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