



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 ² 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	θ_{jc}	$^{\circ}\text{C}/\text{W}$



Outline Dimensions



MBRU2080FCTA

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