



Typical Applications

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

Mechanical Data

Package: TO-247AB

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

VRRM V

Average Rectified Output Current	Storage Temperature	Tstg	6 UNIT
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			TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =15.0A T _j =25	0.5	0.77	0.8
			I _{FM} =15.0A T _j =125	-	0.66	0.7
DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _j =25	-	-	0.05
	I _{RRM2}		V _{RM} =V _{RRM} T _j =125	-	-	50
Junction capacitance	C _j	pF	1MHZ Applied Voltage and Reverse of 4.0 V.D.C.	200	390	600

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

Note2:Pulse test:pulse width 40mS



MBR30100PT

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR30100PT
Thermal Resistance	Between junction and ambient	R J-A	$^{\circ}\text{W}$	50.0
	Between junction and case	R J-C	$^{\circ}\text{W}$	1.0

Characteristics (Typical)

FIG3: Forward Voltage



