



Schottky Diodes

Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Gu in plated leads, solderable per

J-STD-002 and JESD22-B102

Polarity: As marked

Maximum Ratings (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR30200PT
Device marking code			MBR30200PT
Repetitive Peak Reverse Voltage	V _{RRM}	V	200
Average Rectified Output Current @60Hz sine wave, R-load, T _c =148	I _o	A	30
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	I ² t	A ² s	

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =15.0A T _j =25	0.5	0.83	0.9
			I _{FM} =15.0A T _j =125	-	0.745	0.82
DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _j =25	-	-	0.1
	I _{RRM2}		V _{RM} =V _{RRM} T _j =125	-	-	20
Junction capacitance	C _j	pF	1MHz and Applied Reverse Voltage of 4.0 V.D.C	150	240	500

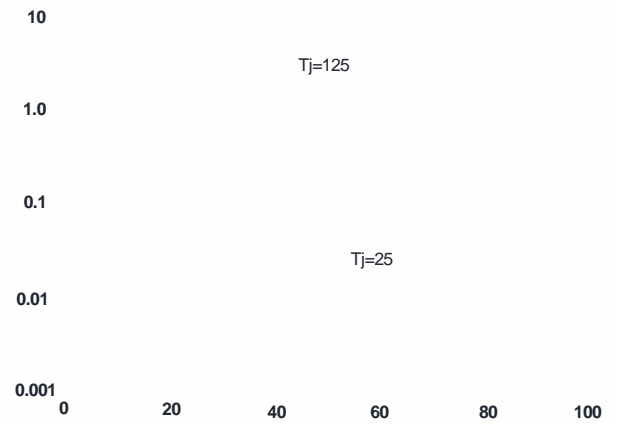


MBR30200PT

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR30200PT
Thermal Resistance	Between junction and ambient	R_{J-A}	$^{\circ}W$	50.0
	Between junction and case	R_{J-C}	$^{\circ}W$	1.0

Characteristics (Typical)





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