



MBR30200CT

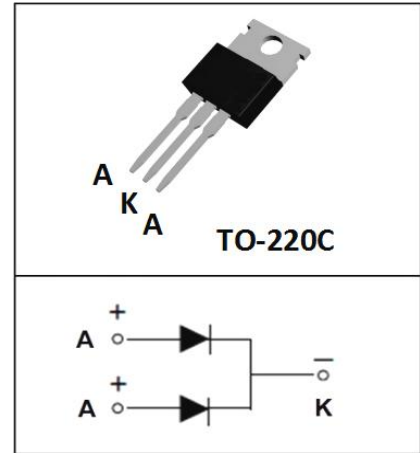
Dual High Voltage Schottky Rectifier

●Features:

- Common Cathode Structure
- Low Power Loss and High Efficiency
- Low Forward Voltage Drop
- High Surge Capability

●Application:

- High Frequency Switch
- Free Wheeling, and Polarity Protection Applications



Absolute Maximum Ratings (T_c=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	200	V
V _R	Maximum DC Reverse Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current, T _c =120°C	15(Per Leg) 30(Per Device)	A
I _{FSM}	Peak Forward Surge Current, 8.3ms Half Sine wave	230	A
T _j	Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C

Thermal Characteristics (T_c=25°C unless otherwise noted)

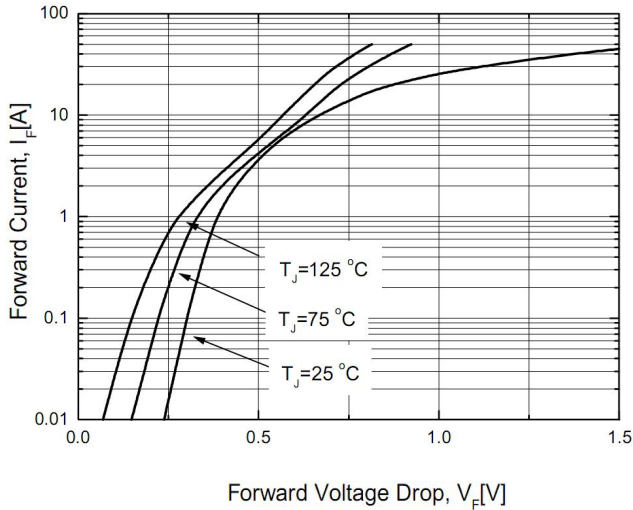
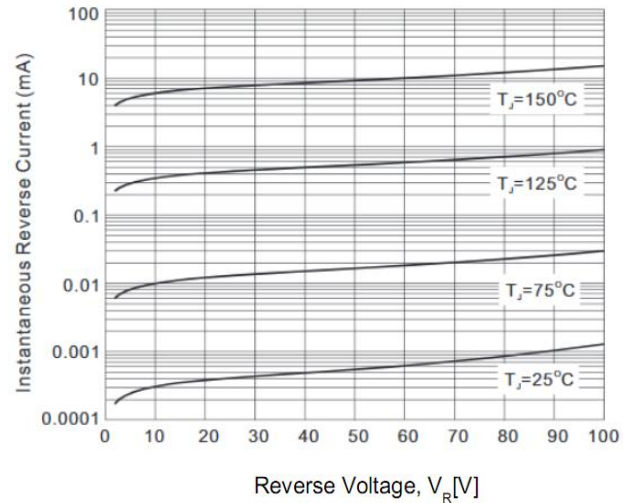
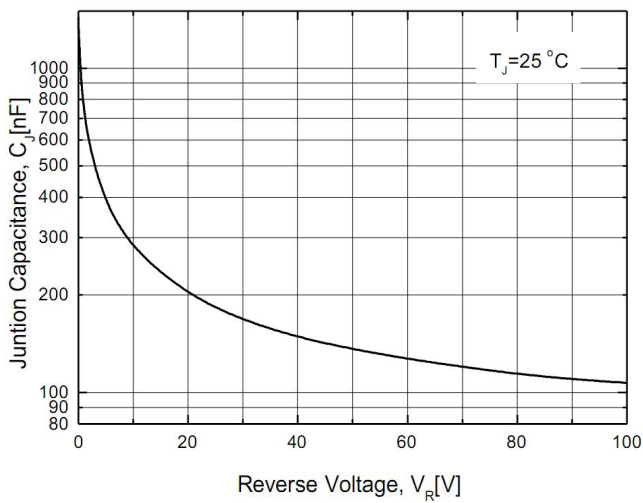
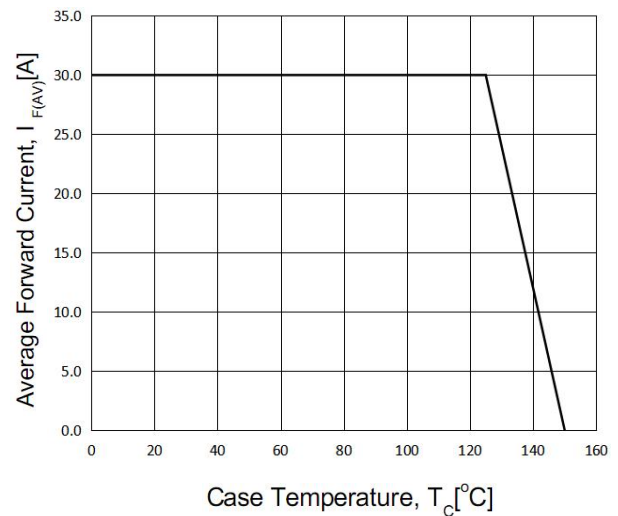
Symbol	Parameter	Max	Unit
R _{θJC}	Thermal Resistance, Junction to Case Per Leg	2.0	°C / W

Electrical Characteristics (T_c=25°C unless otherwise noted)

Symbol	Parameter	Test Conditions	Min	Max	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	I _R =100μA	200		V
I _R	Reverse Current	V _R =200V T _c =25°C V _R =200V T _c =125°C		0.1 5	mA
V _F	Forward Voltage	I _F =15A T _c =25°C I _F =15A T _c =125°C I _F =30A T _c =25°C I _F =30A T _c =125°C		0.98 0.88 1.08 0.98	V

V_F Typical Values: 0.88V@ I_F=15A, T_c=25°C

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

Figure 2. Reverse Leakage Current

Figure 3. Junction Capacitance

Figure 4. Power Derating




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TO-220C MECHANICAL DATA

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	4.00		4.80	E	9.50		10.50
B	1.17		1.47	e		2.54	
B1	0.91		1.21	F	1.15		1.45
b1	0.65		0.95	L	12.00		14.00
c	0.40		0.60	L1	2.50	3.00	3.50
D	14.90		16.90	Q	2.50		3.50
D1	6.10		7.10	Q1	1.80		2.80
				ϕP	3.40		3.90

