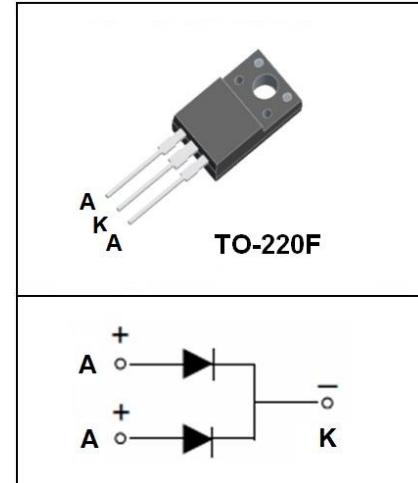


**MBRF40200CT****Dual High Voltage Schottky Rectifier****●Features:**

- 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(Tc=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, Tc=120°C	20(Per Leg) 40(Per Device)	A
I _{FSM}	Peak Forward Surge Current, 8.3ms Half Sine wave	275	A
T _j	Operating Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C

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

Symbol	Parameter	Max	Unit
R _{θJC}	Thermal Resistance, Junction to Case Per Leg	2.8	°C /W

Electrical Characteristics(Tc=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 Tc=25°C V _R =200V Tc=125°C		0.1 10	mA
V _F	Forward Voltage	I _F =20A Tc=25°C I _F =20A Tc=125°C I _F =40A Tc=25°C I _F =40A Tc=125°C		0.96 0.86 1.06 0.96	V

VF Typical Values: 0.86V@ I_F=20A, Tc=25°C



MBRF40200CT

Dual High Voltage Schottky Rectifier

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

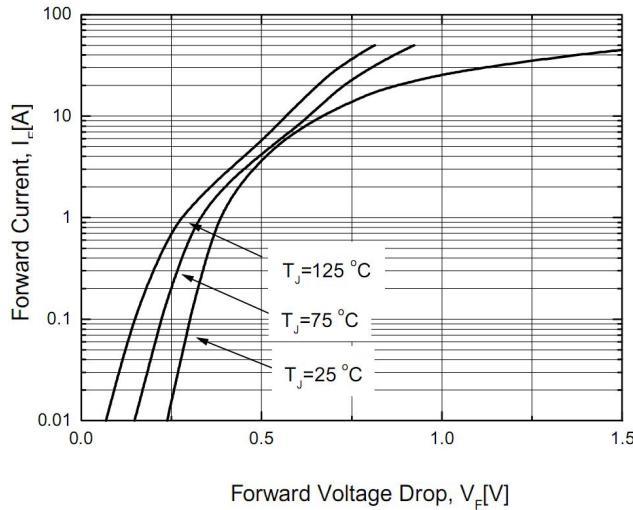


Figure 2. Reverse Leakage Current

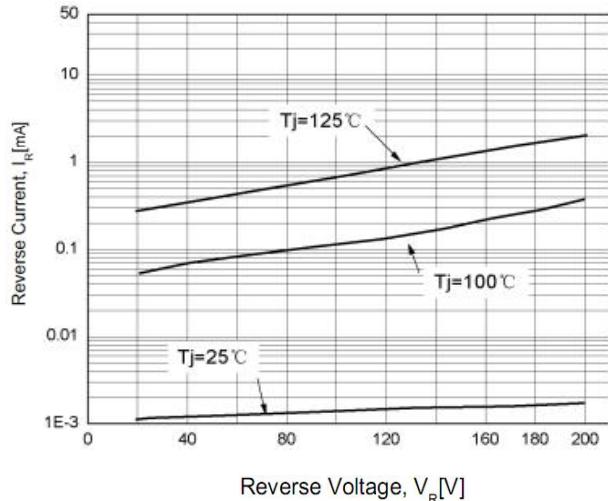


Figure 3. Junction Capacitance

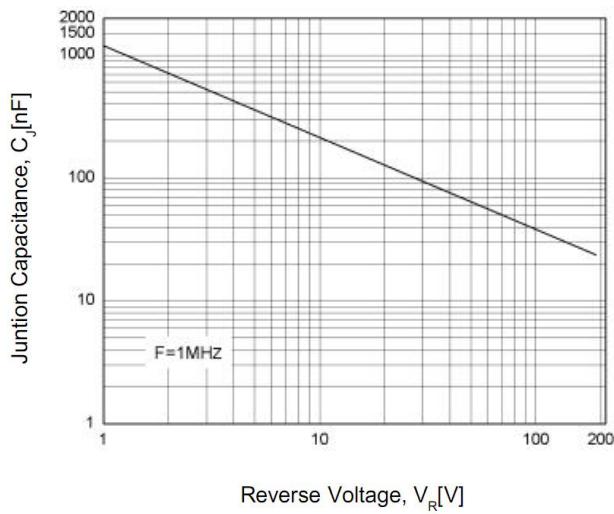
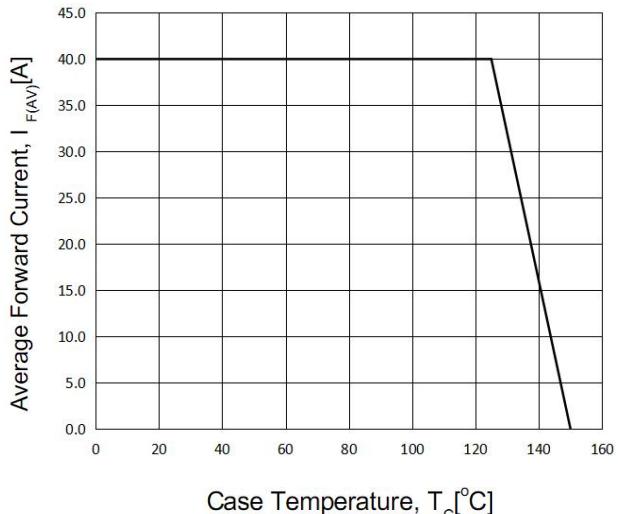


Figure 4. Power Derating





MBRF40200CT

Dual High Voltage Schottky Rectifier

TO-220F Package Dimensions

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	9.80		10.60	D		2.54	
A1		7.00		D1	1.15		1.47
A2	2.90		3.40	D2	0.60		0.90
A3	9.10		9.90	D3	0.20		0.50
B1	15.40		16.40	E	2.24		2.84
B2	4.35		4.95	E1		0.70	
B3	6.00		7.40	E2		1.0×45°	
C	3.00		3.70	E3	0.35		0.65
C1	15.00		17.00	E4	2.30		3.30
C2	8.80		10.80	α (度)		30°	
C3	2.60		3.60				

