

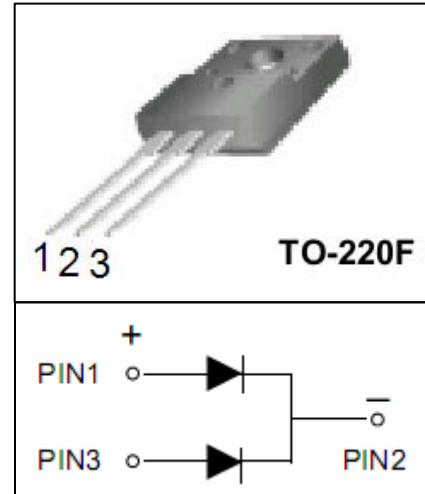


MBRF30150CT

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	150	V
V _R	Maximum DC Reverse Voltage	150	V
I _{F(AV)}	Average Rectified Forward Current, Tc=120°C	15(Per Leg) 30(Per Device)	A
I _{FSM}	Peak Forward Surge Current, 8.3ms Half Sine wave	250	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	3.2	°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	150		V
I _R	Reverse Current	V _R =150V Tc=25°C V _R =150V Tc=125°C		0.1 5	mA
V _F	Forward Voltage	I _F =15A Tc=25°C I _F =15A Tc=125°C I _F =30A Tc=25°C I _F =30A Tc=125°C		0.96 0.84 1.11 1.01	V



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Typical Performance Characteristics

Figure 1. Forward Current Characteristics

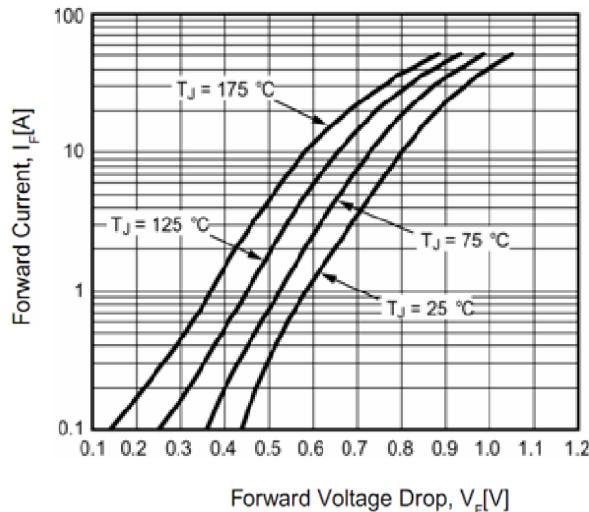


Figure 2. Reverse Leakage Current

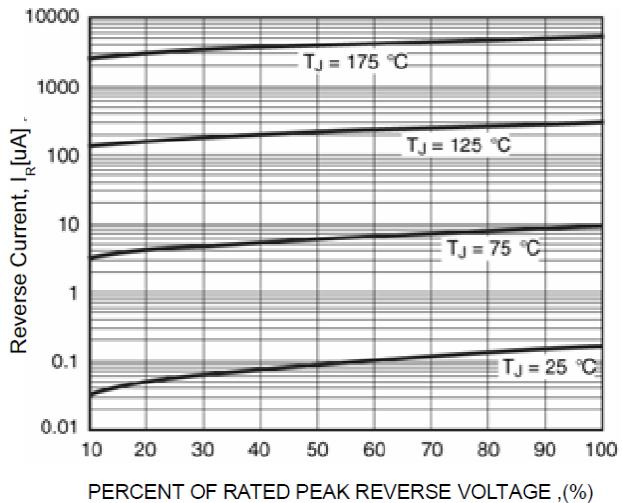


Figure 3. Junction Capacitance

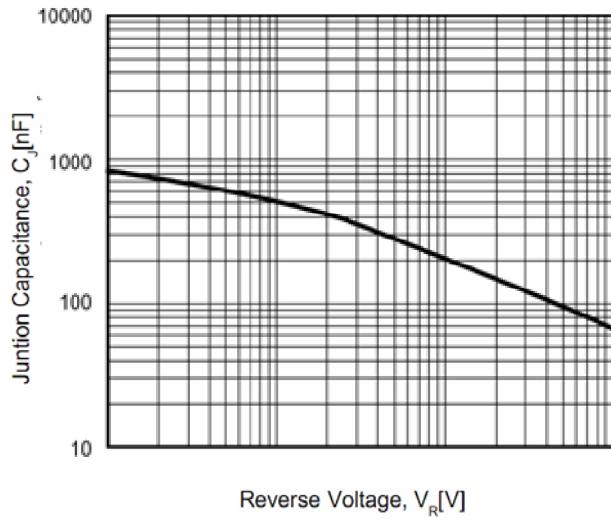
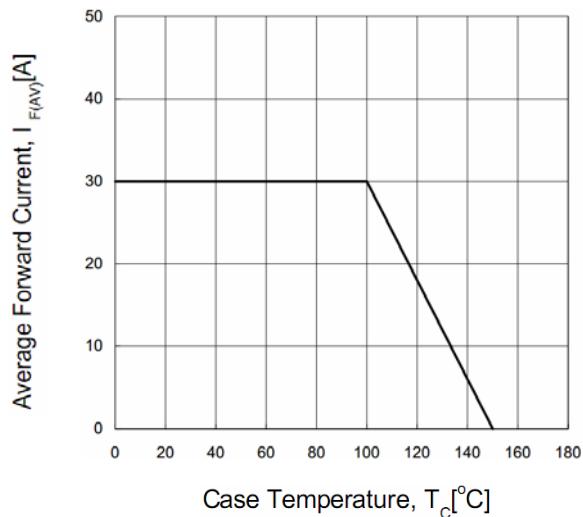


Figure 4. Power Derating





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TO-220F Package Dimensions

UNIT: mm

SYMBOL	min	nom	max	SYMBOL	min	nom	max
A	9.96		10.36	D		2.54	
A1		7.00		D1	1.25		1.35
A2	3.08		3.28	D2	0.70		0.90
A3	9.25		9.65	D3	0.28		0.48
B1	15.70		16.10	E	2.34		2.74
B2	4.50		4.90	E1		0.70	
B3	4.60		5.00	E2		1.0 × 45°	
C	3.20		3.40	E3	0.36		0.65
C1	15.60		16.00	E4	2.55		2.95
C2	9.55		9.95	α (度)		30°	

