

Schottky Barrier Rectifiers

Reverse Voltage - 200V

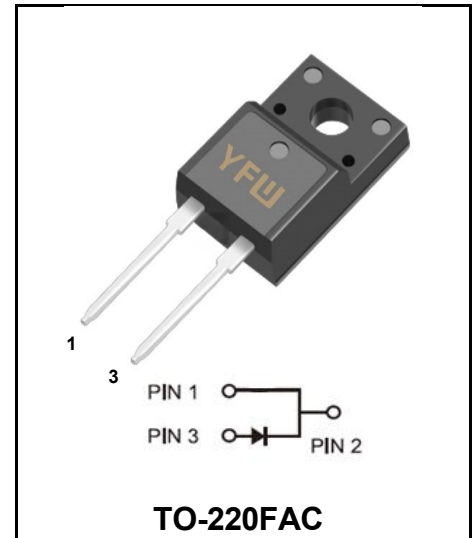
Forward Current - 6A

Product Character

- ♦ Multilayer Metal -Silicon Potential Structure.
- ♦ Low Leakage Current.
- ♦ High Current Capability, High Efficiency.
- ♦ High Junction Temperature Capability.
- ♦ RoHs Product.

Primary Use

- ♦ Low Voltage High Frequency Switching Power Supply.
- ♦ Low Voltage High Frequency Invers Circuit.
- ♦ Low Voltage Continued Circuit and Protection Circuit.



Summarize

MBR6200FAC Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications.

Absolute Maximum Ratings

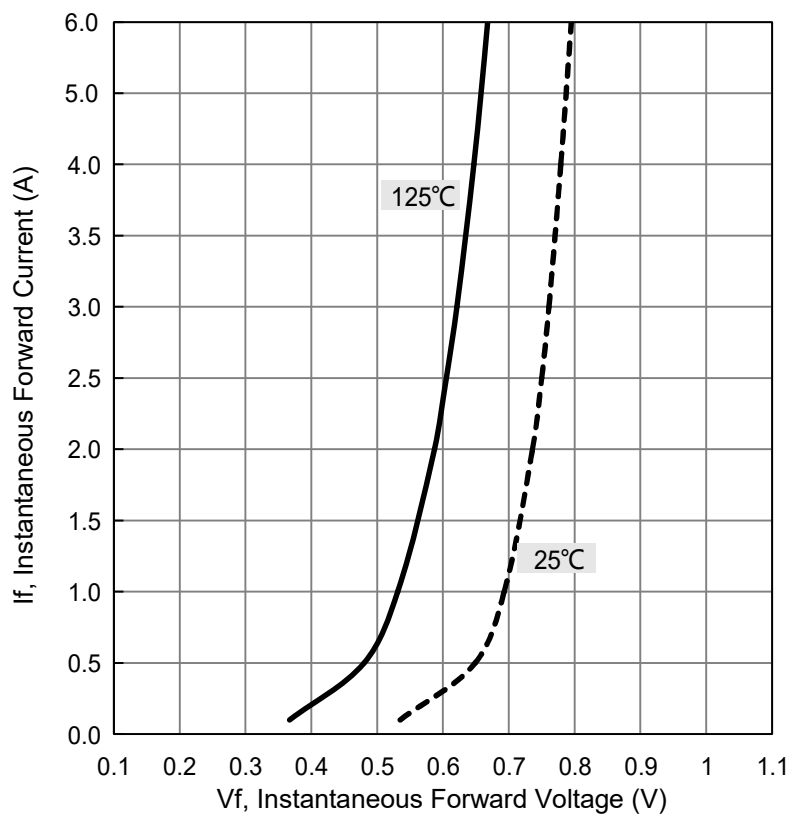
Parameter	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	V_{RRM}	200	V
Average Rectified Forward Current (Rated VR=20Khz Square Wave) - 50% duty cycle	I_{FAV}	6	A
Forward Peak Surge Current(Rated Load 8.3 Half Mssine WaveAccording to JEDEC Method)	I_{FSM}	180x1	A
Operating Junction Temperature	T_J	-40 ~ 175	°C
Storage Temperature	T_{STG}	-40 ~ 175	°C
Typical Thermal Resista nce(per leg)	Package=TO-220FAC $R_{\theta JC}$	4	°C /W

Electricity Character Per Diode($T_J=25^{\circ}\text{C}$ unless otherwise specified)

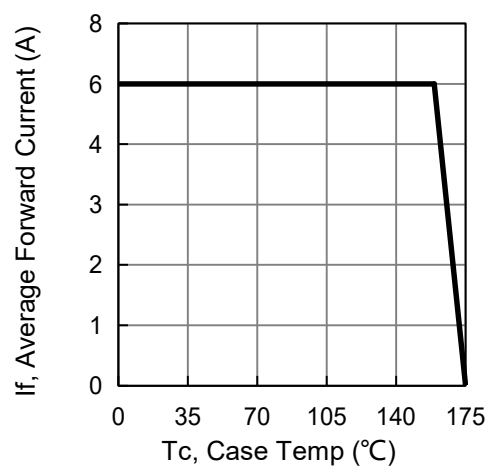
Symbol	Test conditions		Value			Unit
			min	typ	max	
V _B	T _J =25°C	I _R =100uA	200			V
I _R	T _J =25°C	V _R =200V			0.01	mA
	T _J =125°C	V _R =200V			1.00	mA
V _F	T _J =25°C	I _F =6A (I _{FAV} =6Ax1)		0.79	0.85	V
	T _J =125°C				0.75	V

Characteristic Curves

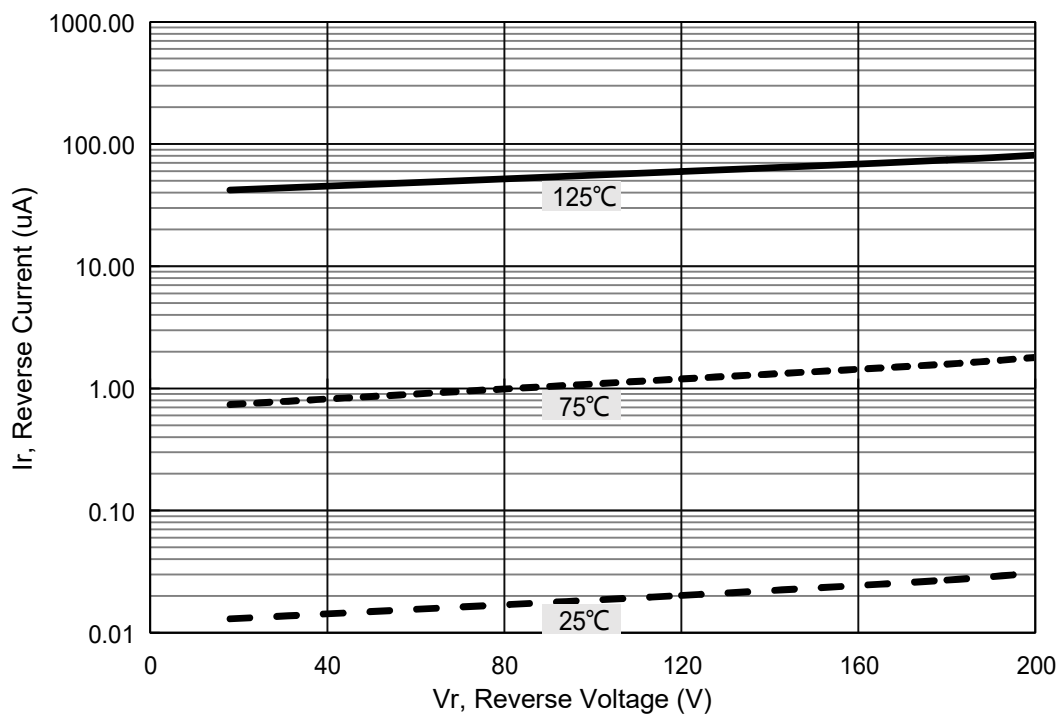
The forward voltage and forward current curve



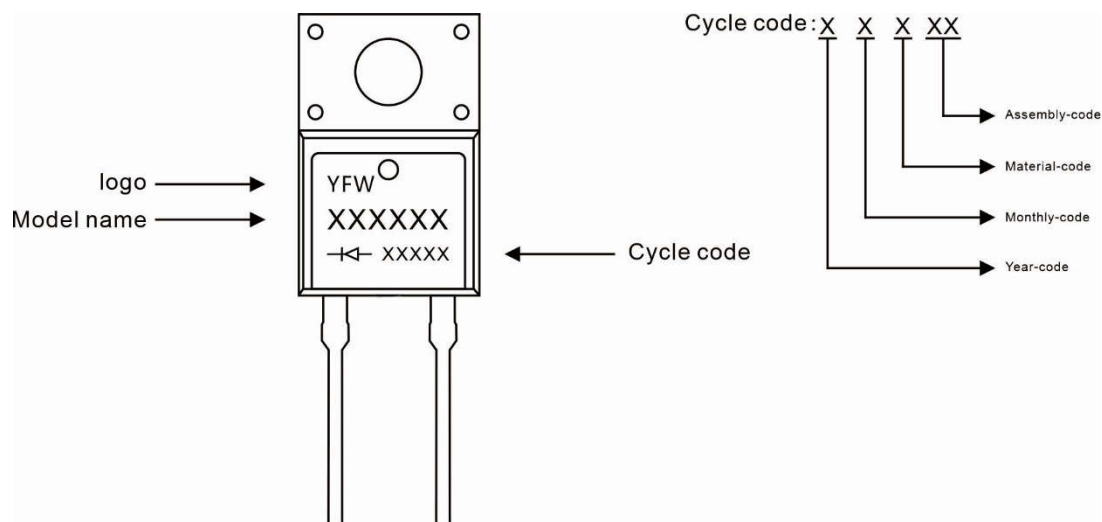
Current derating curve, per element



The reverse leak current and the reverse voltage (single-device) curve.



Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity	Packing Quantity
MBR6200DAF	TO-220FAC	0.06oz(1.7g)	50pcs/tube	1000PCS/Box 5000PCS/Carton

Package Dimensions

TO-220FAC

Symbol	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	4.50	4.90	0.177	0.193
A1	2.34	2.74	0.092	0.108
A2	2.66	2.86	0.105	0.113
b	0.75	0.85	0.030	0.033
b1	1.24	1.44	0.049	0.057
c	0.40	0.60	0.016	0.024
D	10.00	10.32	0.394	0.406
E	15.75	16.05	0.620	0.632
e	4.88	5.28	0.192	0.208
F	3.10	3.5	0.122	0.138
L	12.90	13.50	0.508	0.531
L1	2.90	3.30	0.114	0.130
Φ	3.10	3.30	0.122	0.130

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