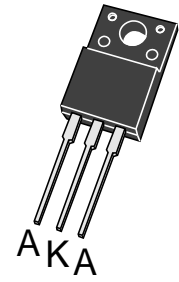
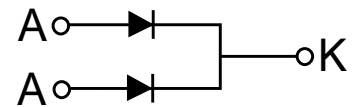


Schottky Barrier Rectifiers

Features

- Multilayer Metal -Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.
- RoHs Product.
- Marking: MBR20H150F


Functional Diagram


Applications

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

Maximum Ratings (Ta=25 unless otherwise noted)

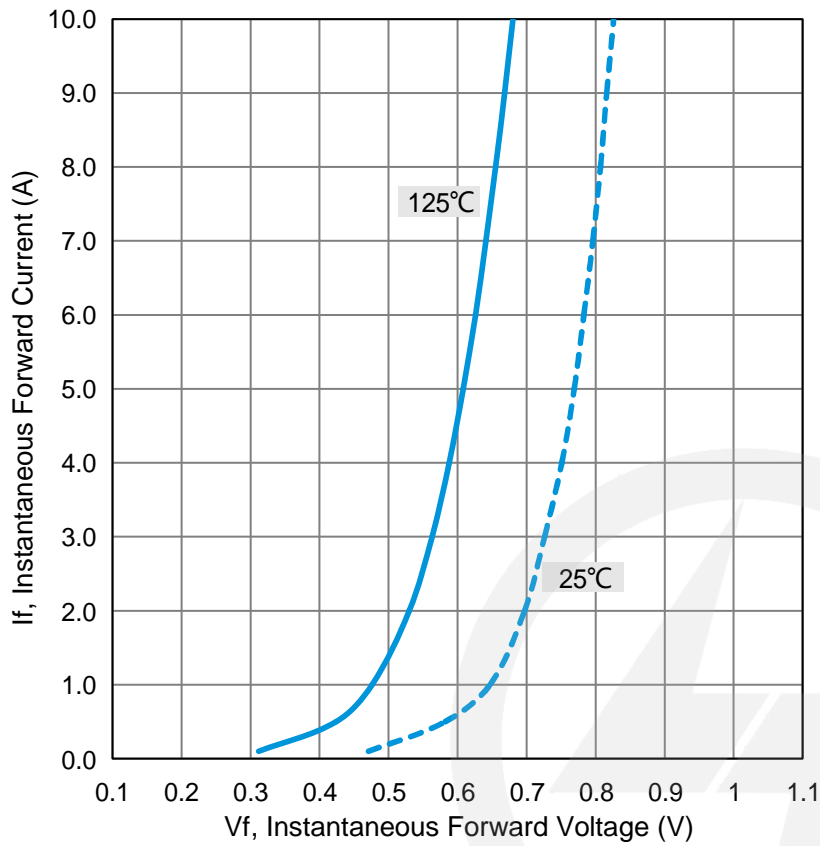
Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	V_{RRM}	150	V
*Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I_{FAV}	20	A
Forward Peak Surge Current(Rated Load 8.3ms Half sine Wave-According to JEDEC Method)	I_{FSM}	290×2	A
Operating Junction Temperature	T_J	175	°C
Storage Temperature	T_{STG}	-40~150	°C
Typical Thermal Resistance(per leg)	Package=ITO-220AB	$R_{\theta JC}$	4 °C/W

Electrical characteristics (Ta=25 unless otherwise specified)

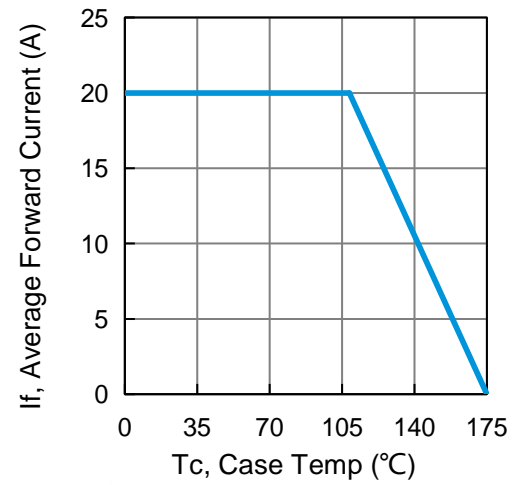
Item	Test Condition		Value(min)	Value(typ)	Value(max)	Unit
V_B	$T_J = 25^{\circ}C$	$I_R = 1mA$	150	---	---	V
I_R	$T_J = 25^{\circ}C$	$V_R = 150V$	---	---	0.01	mA
	$T_J = 125^{\circ}C$	$V_R = 150V$	---	---	1.00	mA
V_F	$T_J = 25^{\circ}C$	$I_F = 10A$	---	0.83	0.9	V
	$T_J = 125^{\circ}C$	($I_{FAV} = 10A \times 2$)	---	---	0.8	V

Typical Characteristics

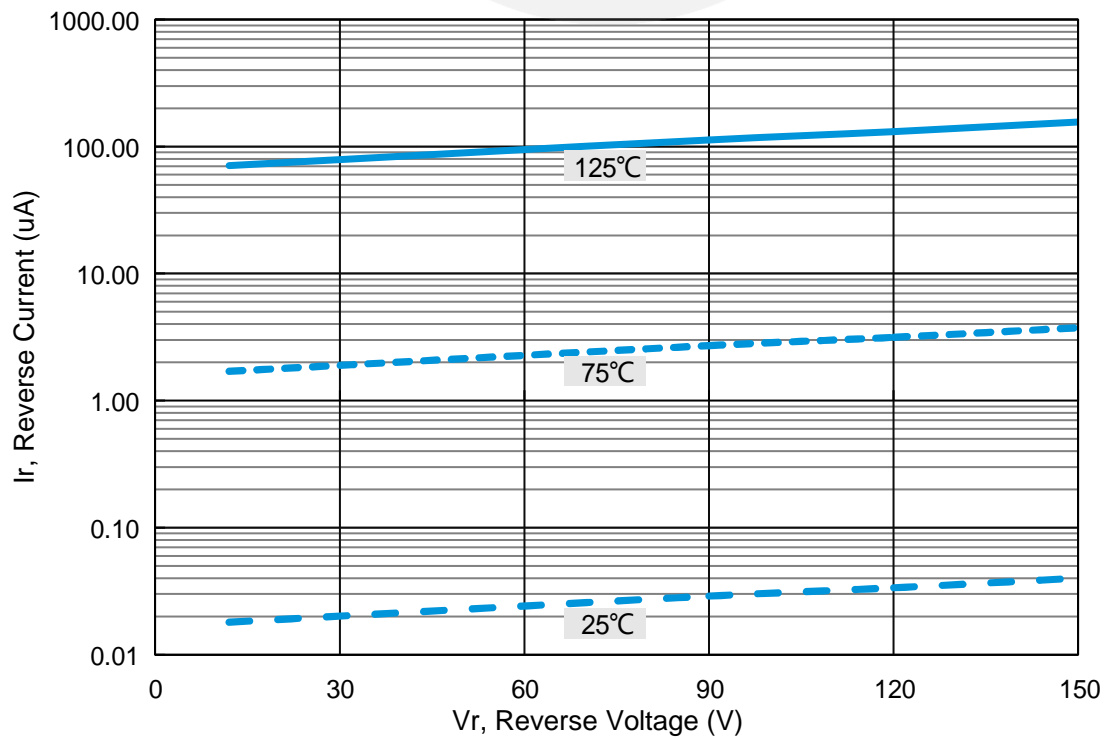
The forward voltage and forward current curve

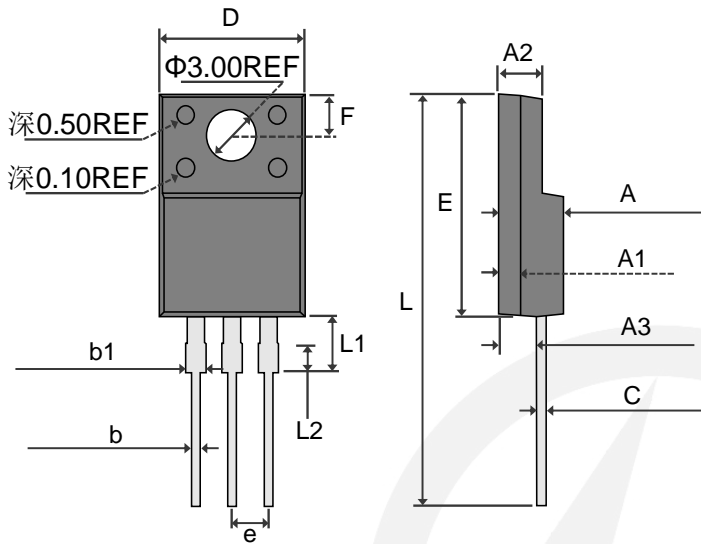


Current derating curve, per element



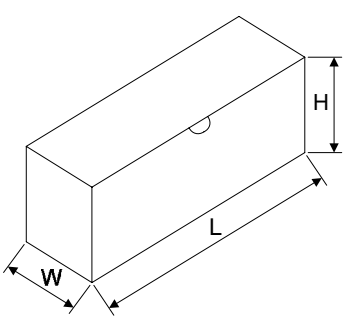
The reverse leak current and the reverse voltage (single-device) curve.



ITO-220AB Package Outline


Symbol	Dimensions In Millimeters	
	Min.	Max.
A	4.30	4.70
A1	1.30 REF.	
A2	2.50	2.90
A3	2.50	2.90
b	0.50	0.75
b1	1.10	1.35
C	0.50	0.75
D	9.96	10.36
E	14.70	15.30
e	2.54 TYP.	
F	2.70 REF.	
Φ	3.00 REF.	
L	28.00	28.68
L1	2.70	3.10
L2	1.00	1.18

Packaging

Box	L	578.0±5.0
	W	215.0±5.0
	H	185.0±5.0
	Quantity: 5000PCS	