

/ Descriptions

TO-220
Schottky Barrier Diode in a TO-220 Plastic Package.

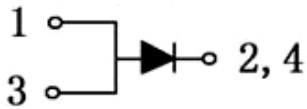
/ Features

Low power loss, high efficiency, HF Product.

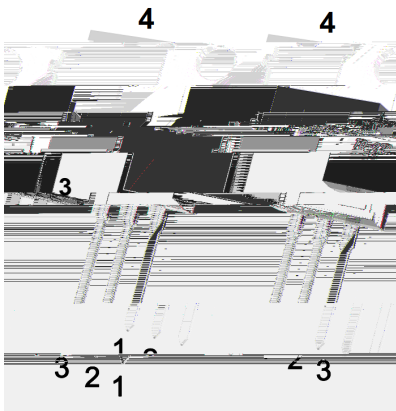
/ Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

/ Equivalent Circuit



/ Pinning



PIN1 Anode PIN 2,4 Cathode PIN 3 Anode

/ Marking

See Marking Instructions.

MBR10300

Rev.A Oct.-2024

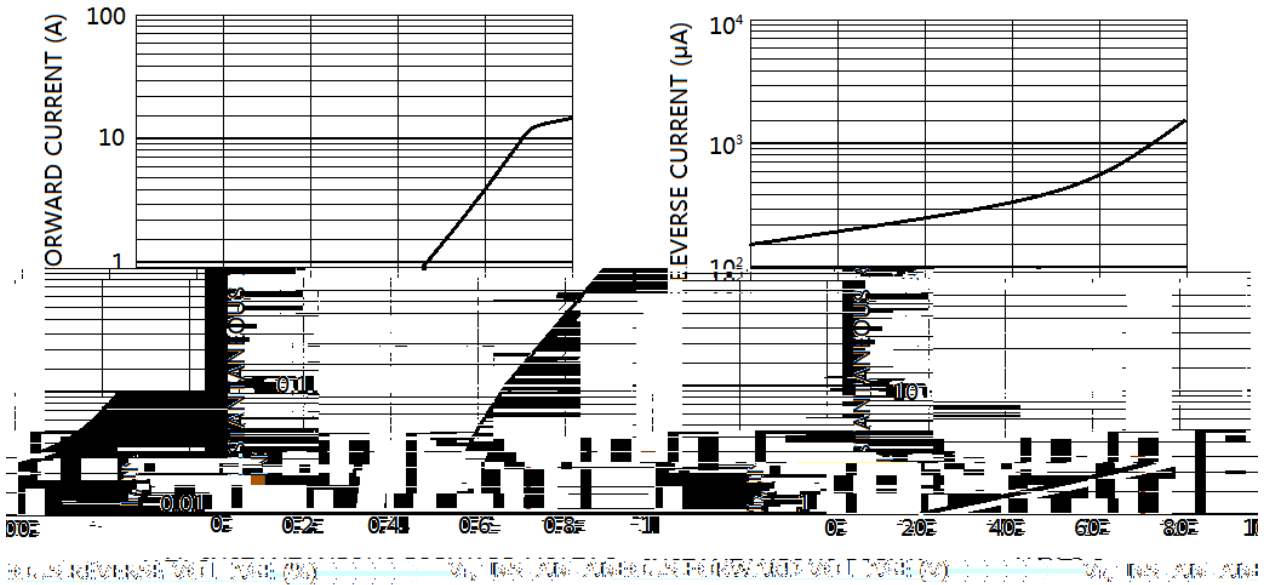
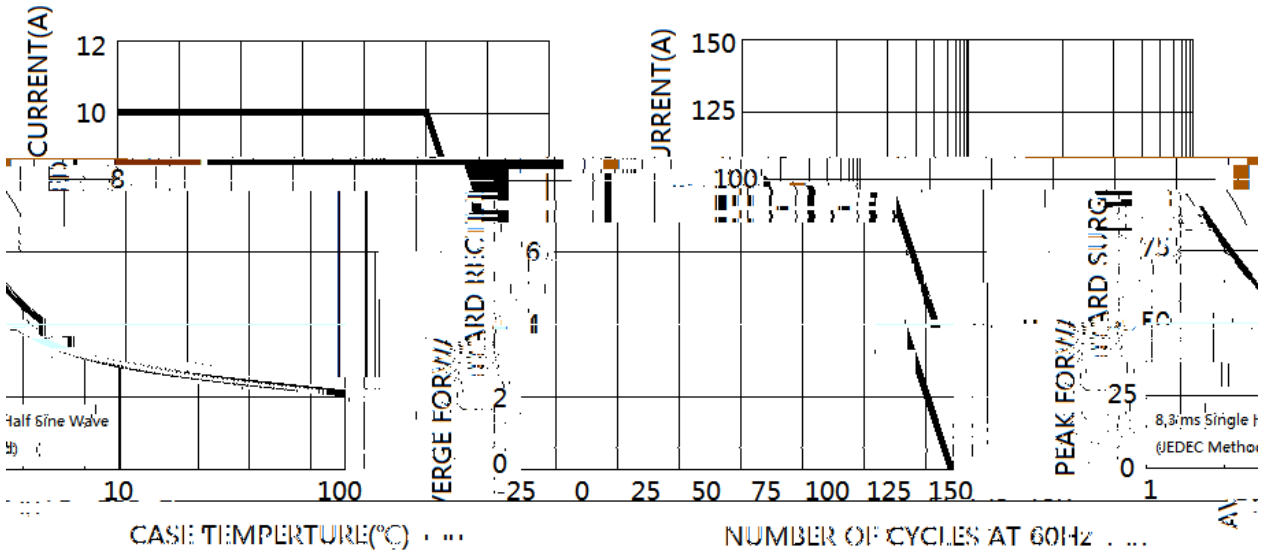


DATA SHEET

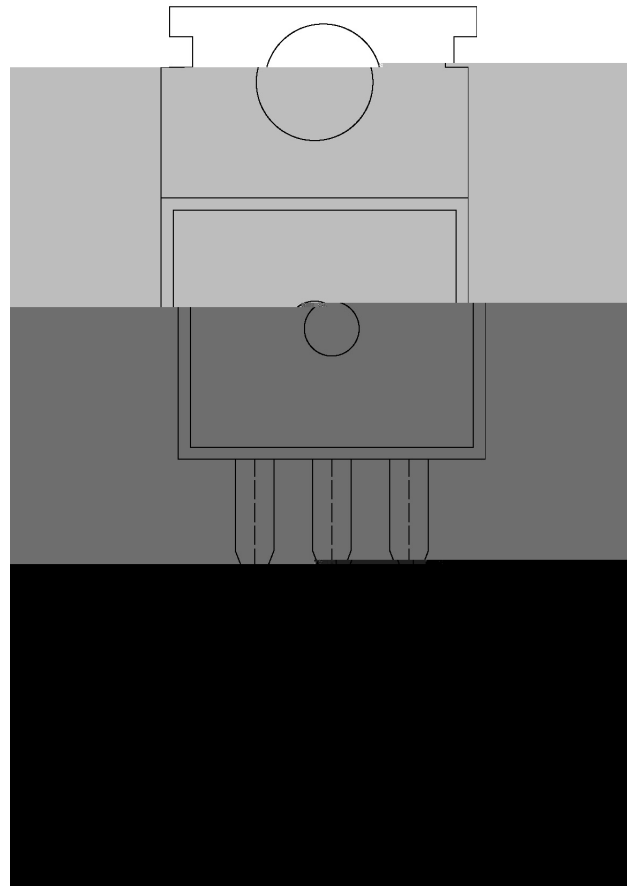
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	V_{RRM} V_{RWM}	300	V
Reverse Voltage	V_R	300	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Non Repetitive Peak Surge Current	I_{FSM}	100	A
Junction Temperature Range	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R = 0.5mA$	300			V
Peak Forward Voltage	V_F	$I_F = 3.0A(T_j = 25^\circ C)$		0.79	0.83	V
		$I_F = 10A(T_j = 25^\circ C)$		0.89	0.94	V
Instantaneous Reverse Current	I_R	$V_R = 300V(T_j = 25^\circ C)$			0.1	mA
		$V_R = 300V(T_j)$				

/ Electrical Characteristic Curve







() / Temperature Profile for Dip Soldering(Pb-Free)

- Note:
- | | | | | | |
|---|-------|-----|----|-----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255±5 | | | 5±0.5sec; | 2.Peak Temp.:255±5 , Duration:5±0.5sec. |
| 3 | | | 2 | 10 | |