

1. Scope

The present specifications shall apply to an FMB-G14L.

2. Outline

High Frequency Rectification

Type	Silicon Schottky Barrier Diode
Structure	Resin Molded Flammability : UL94V-0 (Equivalent)
Applications	High Frequency Rectification

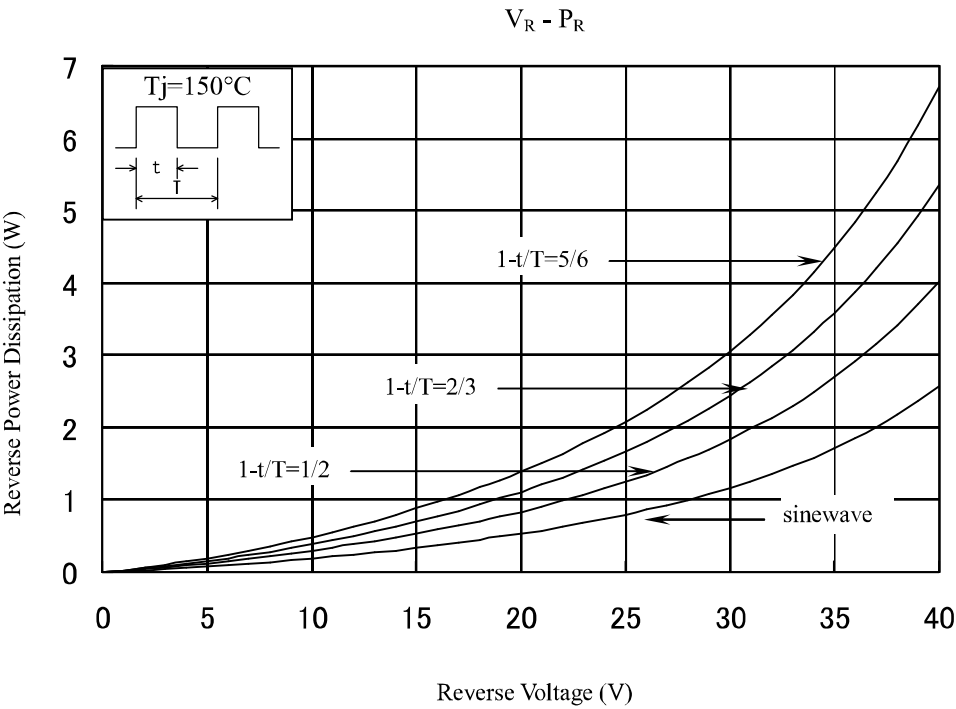
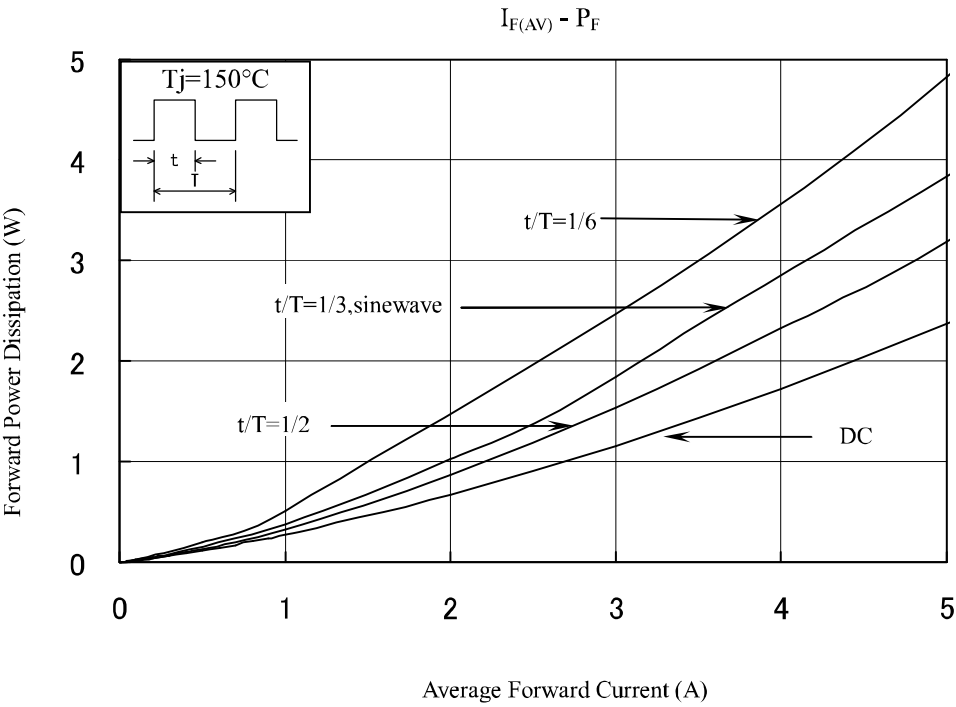
3. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	45	
2	Peak Reverse Voltage	V_{RM}	V	40	
3	Average Forward Current	$I_{F(AV)}$	A	5.0	Refer Derating of 6
4	Peak Surge Forward Current	I_{FSM}	A	60	half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	18	$1\text{msec} \leq t \leq 10\text{msec}$
6	Junction Temperature	T_j	$^{\circ}\text{C}$	$-40 \sim +150$	
7	Storage Temperature	T_{stg}	$^{\circ}\text{C}$	$-40 \sim +150$	

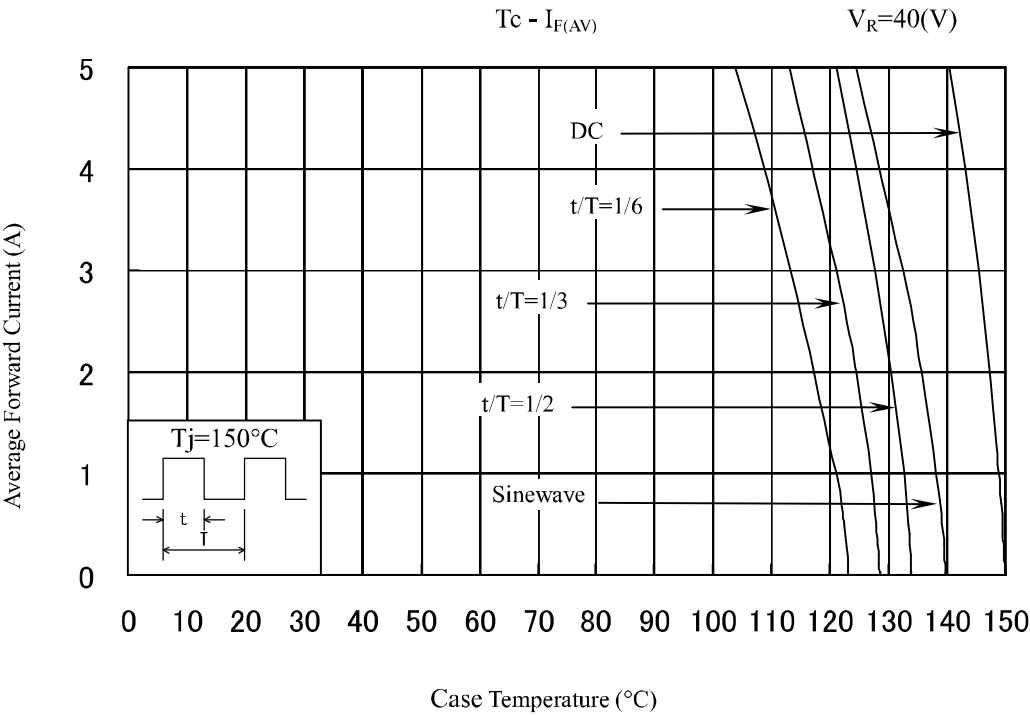
4. Electrical characteristics

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.55 max.	$I_F=5.0\text{A}$
2	Reverse Leakage Current	I_R	mA	5.0 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H \cdot I_{R1}$	mA	50 max.	$V_R=V_{RM}, T_j=125^{\circ}\text{C}$
		$H \cdot I_{R2}$	mA	175 max.	$V_R=V_{RM}, T_j=150^{\circ}\text{C}$
4	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}\text{C/W}$	4.0 max.	Between Junction and case

5.Characteristics

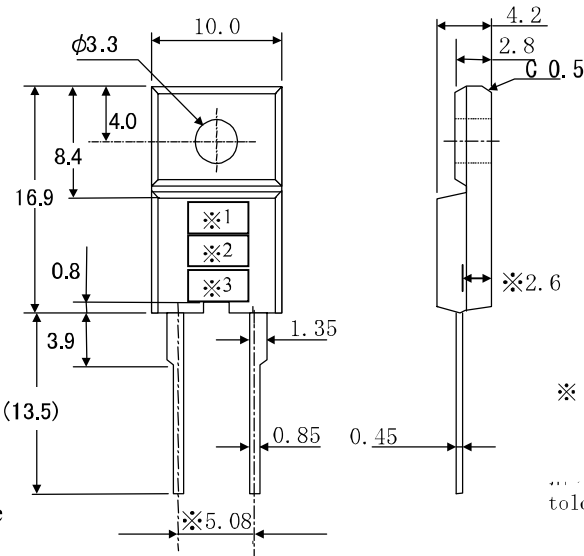


6. Derating



7. Package information

7-1Package type, physical dimensions and material



7-2Appearance

The body shall be clean and shall not bear any stain, rust or flaw.

7-3Marking

Type Name	Marking		
	* 1 Type Name	* 2 Polarity	* 3 Lot number
FMB-G14L	FMBG14	L	1st letter: Last digit of year 2nd letter: Month From 1 to 9 for Jan. to Sep., O for Oct., N for Nov., D for Dec. 3rd & 4th letter: Day ex. 4130 (Jan. 30, 2004)

FMB-G14L

Data sheet



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Application Note

Description

A low loss rectifier schottky barrier diode.
Achieves low leakage current by selecting the optimal barrier metal.

Application

- DC-DC Converter
- AC Adapter
- Other high-frequency rectifier circuits

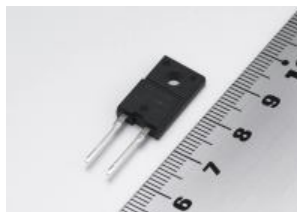
Features

- Low noise switching feature
- Low VF
- TO220F type high heat dissipation package

Remarks

Package

Package Name:TO220F-2



Specifications

Forward Current	5.0A
Surge Forward Current	60A
Peak Reverse Voltage	40V
Storage Temperature	-40℃~+150℃
Max. Forward Voltage Drop	0.55V
Forward Current (Conditions)	5.0A
Max. Reverse Leakage Current	5.0mA
Reverse Leakage Current Under High Temperature	175mA
Junction Temperature (Conditions)	150℃
Thermal Resistance	4.0℃/W
Automotive Division	NO

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External Dimensions

Support Menu

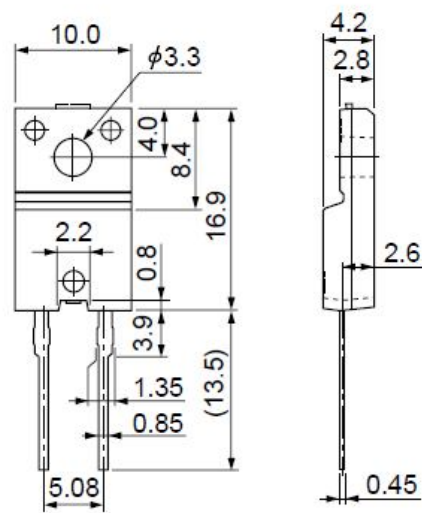
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Application Note	

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