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	1msec≤ t≤ 10msec
6	Junction Temperature	T_j	°C	-40ⓗ+150	
7	Storage Temperature	T_{stg}	°C	-40ⓗ+150	

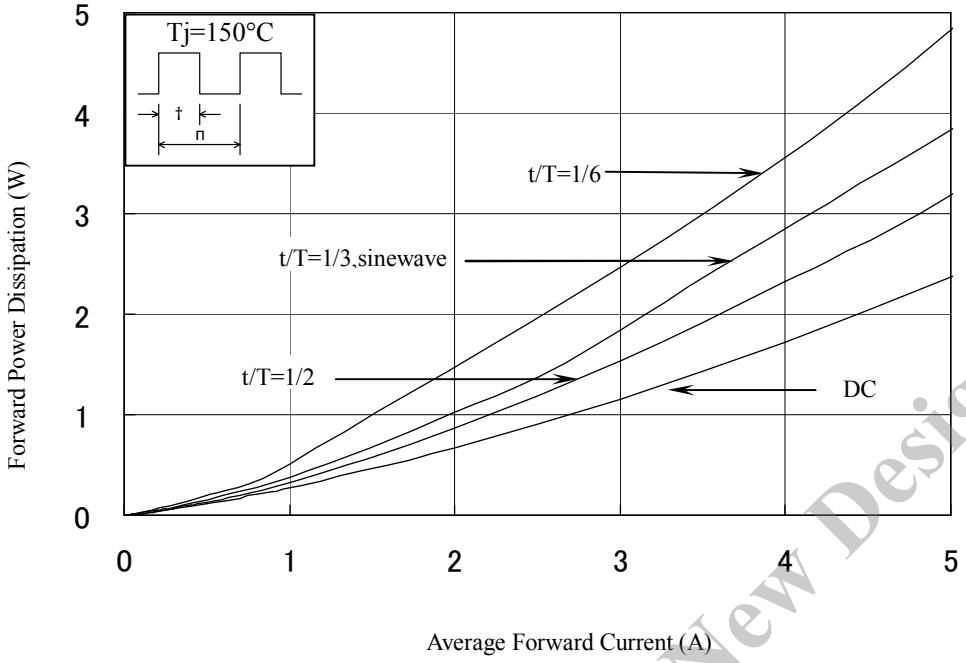
4. Electrical characteristics

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

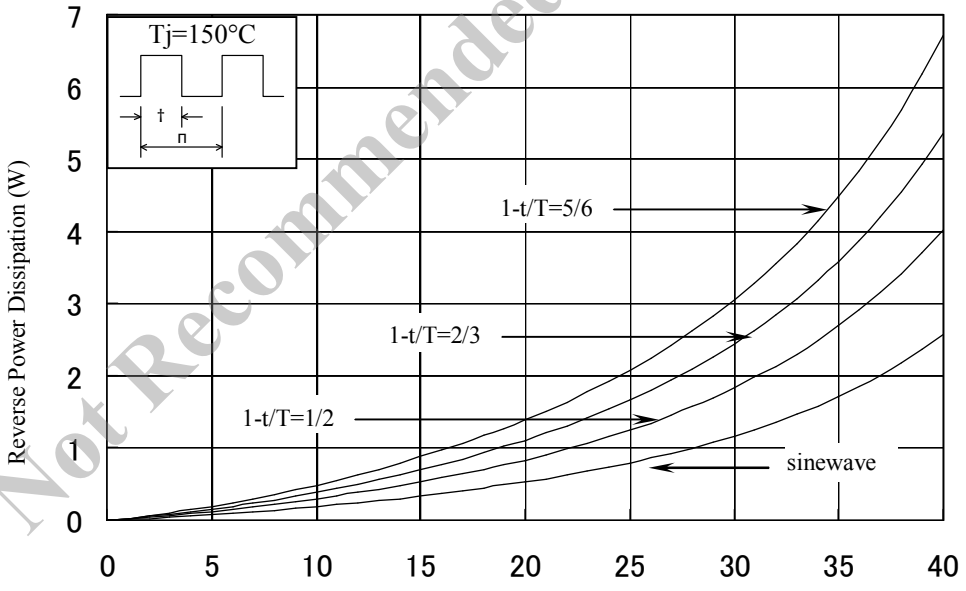
Not Recommended for New Designs

5. Characteristics

$I_{F(AV)}$ - P_F

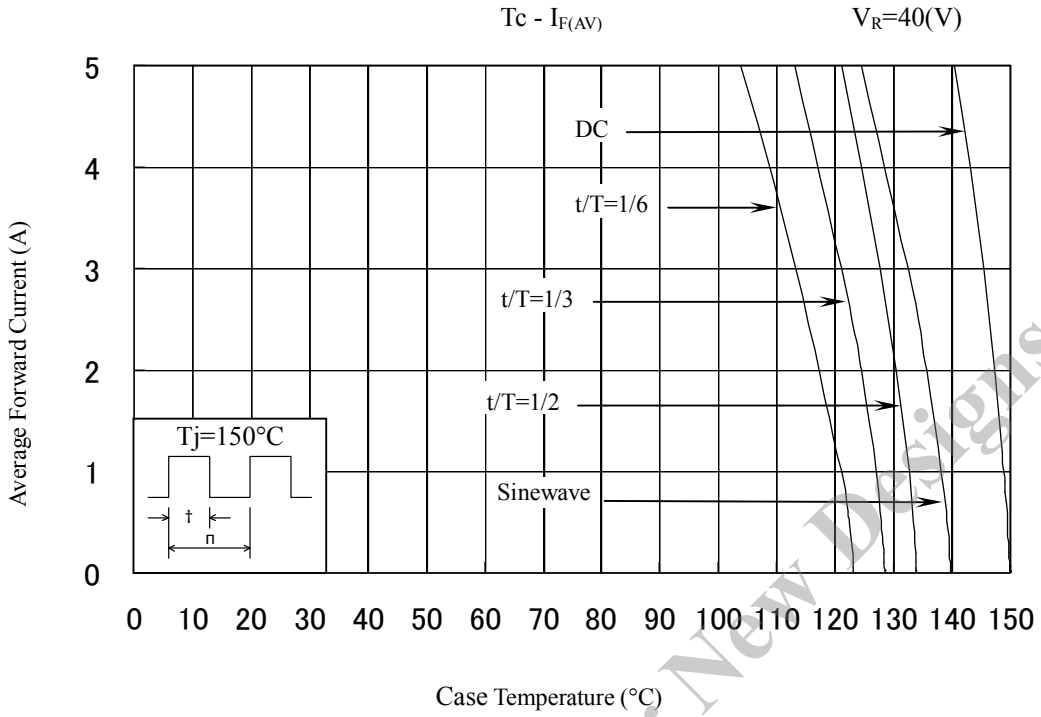


V_R - P_R



Not Recommended for New Designs

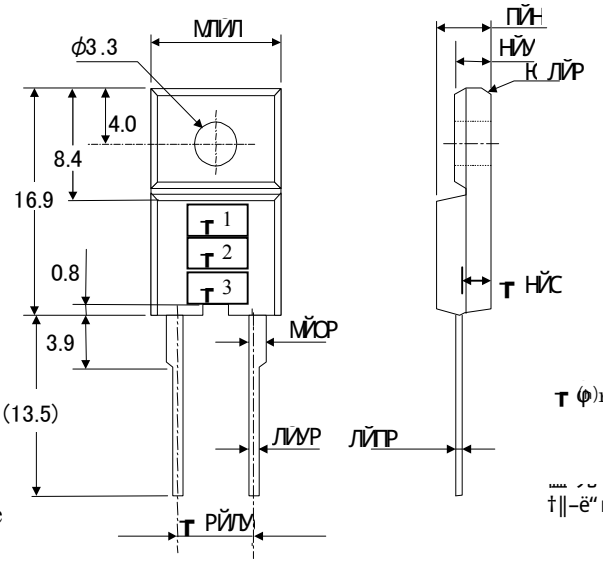
6. Derating



Not Recommended for New Designs

7. Package information

7-1Package type, physical dimensions and material



T (φ)root dimension

Dimensions in

7-2Appearance

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

7-3Marking

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

Not Recommended for New Designs