

π φ加垫噪天

Scope

Ⓜ 皇丘 √(c)FMB-G14 Ⓜ J √ 加垫 Ⓜ (d)
The present specifications shall apply to an FMB-G14.

π φ七挡

Outline

回 Type	嗶	こゃたつお◎ぬゆ÷ぜう◎づ Silicon Schottky Barrier Diode
倭 Structure	却	冕僂僕傑侏 嘶嵒kA响 : 皇丘 UL94V-0 卜咭噪 Resin Molded Flammability : UL94V-0 (Equivalent)
冂 Applications	咽	借Ⓜ啮劬坳 High Frequency Rectification

≡ φ勸厠俟宏嗽丘

Absolute maximum ratings

No.	嗽φφ垢 Item	廉傑 Symbol	叟○ Unit	嗽φφ垢 Rating	嗽φφ垢 Conditions
1	ば◎か嗽金噁 仝咯Ⓜ Transient Peak Reverse Voltage	V_{RSM}	V	45	
2	ば◎か金噁 仝咯Ⓜ Peak Reverse Voltage	V_{RM}	V	40	
3	嚟但凡咯坳 Average Forward Current	$I_{F(AV)}$	A	3.0	$T_c \uparrow 137^\circ J$, Sinewave
4	け◎ご凡咯坳 Peak Surge Forward Current	I_{FSM}	A	60	10msec. 勉保啮啮叟啮 half sinewave, one shot
5	I^2t 侏lm叻 I^2t Limiting Value	I^2t	A^2s	18	1msec \uparrow 10msec
6	總偵啮pA响 Junction Temperature	T_j	$^\circ J$	-40 ⑥ +150	
7	曠斥pA响 Storage Temperature	T_{stg}	$^\circ J$	-40 ⑥ +150	
8	勸Ⓜ原Ⓜ Dielectric Strength		kV	A.C.1.0	Ⓜ \uparrow (⑥) ⑥ Ⓜ (1 啮Ⓜ) Junction and case (1min)

≡ φ咯亮咋啮勁

Electrical characteristics

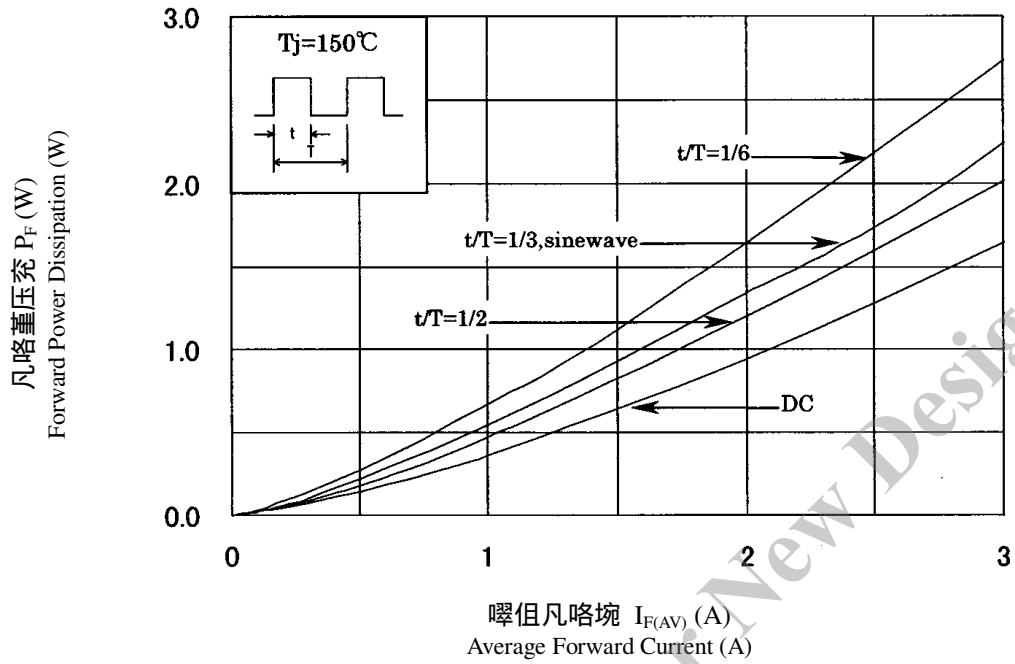
No.	嗽φφ垢 Item	廉傑 Symbol	叟○ Unit	嗽φφ勁 Value	嗽φφ垢 Conditions
1	凡嚟捷僂mA咯Ⓜ Forward Voltage Drop	V_F	V	0.60 max.	$I_F = 3.0A$
2	仝嚟捷嵒 〃咯坳 Reverse Leakage Current	I_R	mA	2.0 max.	$V_R = V_{RM}$
3	借pA仝嚟捷嵒 〃咯坳 Reverse Leakage Current Under High Temperature	$H^n I_{R1}$	mA	20 max.	$V_R = V_{RM}, T_j = 125^\circ J$
		$H^n I_{R2}$	mA	70 max.	$V_R = V_{RM}, T_j = 150^\circ J$
4	啓命僂 Thermal Resistance	$R_{th(j-c)}$	$^\circ J/W$	4.0 max.	總偵啮 坳坑丹嚟借Ⓜ嚟啮亂 Between Junction and case

⊥ φ除勁

Characteristics

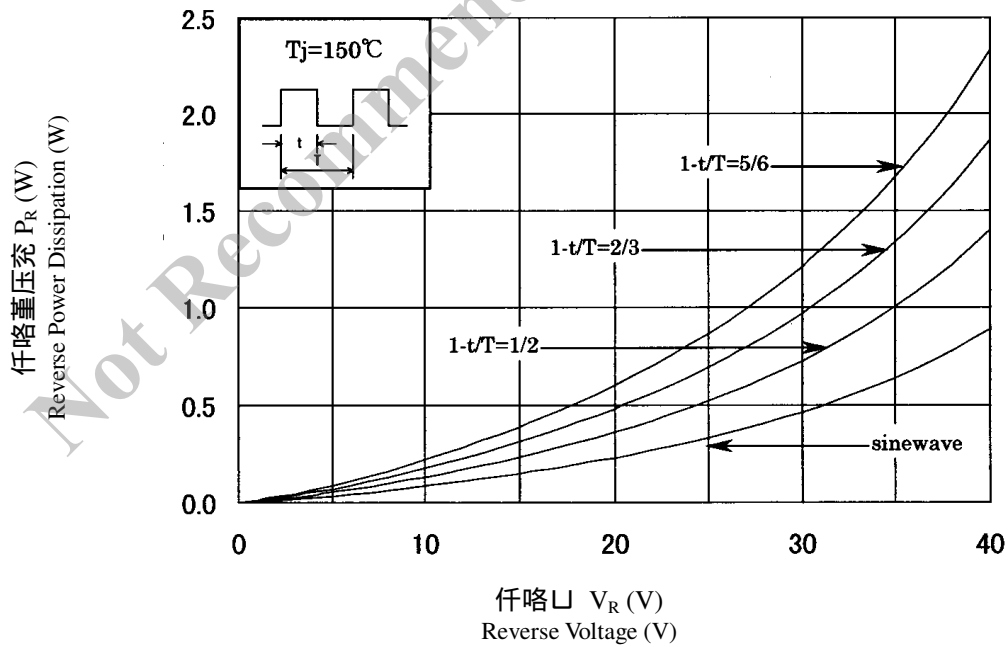
嚟但凡咯塊 ⊙ 凡咯董压充

$I_{F(AV)}$ ~ P_F



仟咯口 ⊙ 仟咯董压充

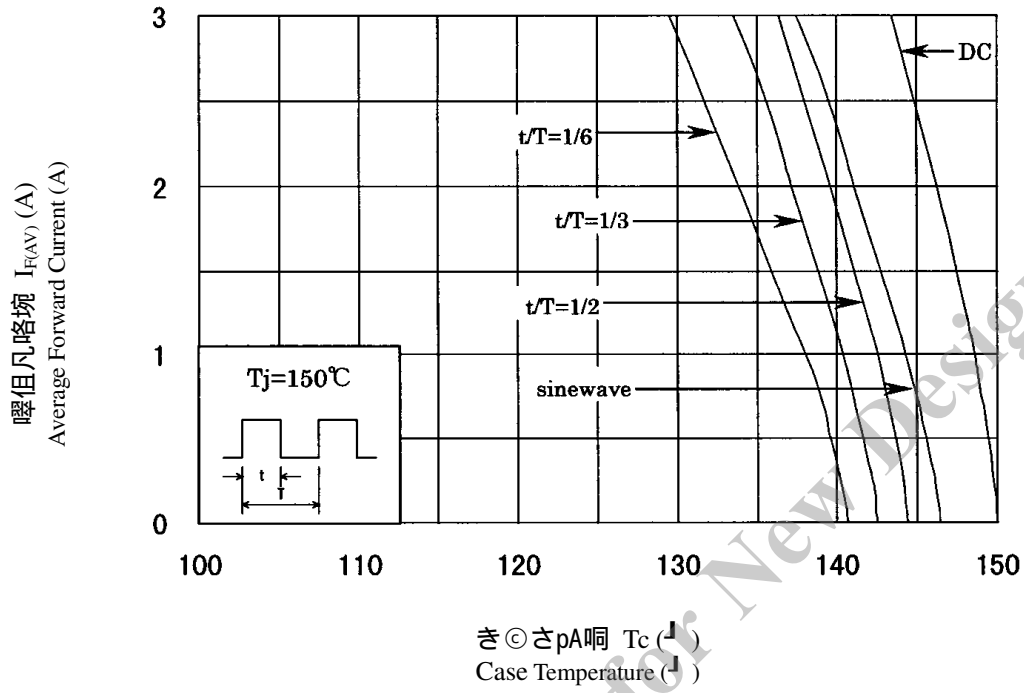
V_R ~ P_R



† φ俞嗽丘
Derating

き◎さpA响◎嚶但凡咯碗
 $T_c \sim I_{F(AV)}$

$V_R=40(V)$



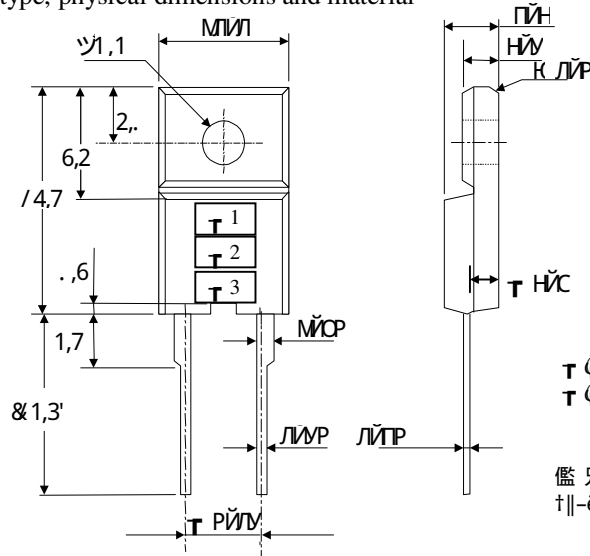
Not Recommended for New Designs

⌘ ϕ 鶴俵

Package information

⌘-⌘ 鶴俵 (c) 勒嚙 雷 [X] 帶尅

Package type, physical dimensions and material



Т ϕ) 偶係勒嚙
Т ϕ) root dimension

儘兄 □ ♀ 倘備 | ЛН 雙 ○ mm
† || -ë" Ъ-кёφ" φ! ЛН Dimensions in mm

⌘-⌘ 鶴耆

Appearance

固匪 √ (c) ㉞ " (c) 由 (c) 亿 塲 啞 □ 嚙 德 壤 Ъ ▸] ㉞ # (d)

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

⌘-⌘ 唳兄

Marking

唳φ ϕ 唳 Type Name	唳φ ϕ 唳 Marking		
	† 1φ 唳塲 Type Name	† 2φ 世勁 Polarity	† 3φ ㄆㄆㄆ唳 Lot number
FMB-G14	FMBG14		ㄆ 1 唳囉 (h) 啞 (勒 塲 啞 傑 mA ㄆ ㄆ) 1st letter: Last digit of year ㄆ 2 唳囉 (h) 唳φ 1 ㉞ 9 唳⊥ 1 ㉞ 9 2nd letter: Monthφ From 1 to 9 for Jan. to Sep., 10 唳⊥ O(c) 11 唳⊥ N(c) 12 唳⊥ D O for Oct., N for Nov., D for Dec. ㄆ 3,4 唳囉 (h) 啄 3rd & 4th letter: Day 塲 (h) 4323φ (2004 啞 3 唳 23 啄 勒 却) ex. 4323φ (Mar. 23, 2004)