

# 開關二極管 Switching Diode

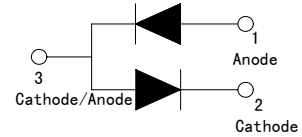
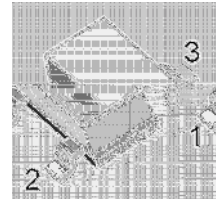
## Switching Diode 開關二極管

# FHD7000

### DESCRIPTION & FEATURES 概述及特點

Low forward voltage 低正向壓降  
Fast reverse recovery time 快恢復時間  
Ultra High Speed Switching Application 超高速開關應用

### SOT-23



### PIN ASSIGNMENT 引腳說明

PIN NAME 管腳符號	PIN NUMBER 引腳序號	FUNCTION 功能
	SOT-23	
A	1	Anode
C	2	Cathode
C/A	3	Cathode/ Anode

### MAXIMUM RATINGS(T<sub>a</sub>=25°C) 最大額定值

Characteristic 特性參數	Symbol 符號	Rating 額定值	Unit 單位
Reverse Voltage 反向電壓	V <sub>R</sub>	100	Vdc
Forward Current 正向電流	I <sub>F</sub>	200	mAdc
Surge Current 浪湧電流	I <sub>FSM</sub>	500	mAdc
Power Dissipation 耗散功率	P <sub>D</sub>	225	mW
Junction Temperature 結溫	T <sub>j</sub>	150	°C
Storage Temperature Range 儲存溫度	T <sub>stg</sub>	-55~150	°C

### DEVICE MARKING 打標

FHD7000= M5C
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### ELECTRICAL CHARACTERISTICS 電特性

(T<sub>A</sub>=25°C unless otherwise noted 如無特殊說明，溫度為 25°C)

Characteristic 特性參數	Symbol 符號	Test Condition 測試條件	Min 最小值	Type 典型值	Max 最大值	Unit 單位
Reverse Breakdown Voltage 反向電壓	V <sub>(BR)</sub>	I <sub>(BR)</sub> = 100 Adc	100	—	—	Vdc
Forward Voltage 正向電壓	V <sub>F1</sub>	I <sub>F</sub> =1mAdc	0.55	—	0.7	V
	V <sub>F2</sub>	I <sub>F</sub> =10mAdc	0.67	—	0.82	—
	V <sub>F3</sub>	I <sub>F</sub> =100mAdc	0.75	—	1.1	—
Reverse Voltage Leakage Current 反向漏電流	I <sub>R1</sub>	V <sub>R</sub> =50Vdc	—	—	1.3	μAdc
	I <sub>R2</sub>	V <sub>R</sub> =100Vdc	—	—	3.0	—
	I <sub>R3</sub>	V <sub>R</sub> =500Vdc, 25°C	—	—	100	—
Total Capacitance 電容	C <sub>T</sub>	V <sub>R</sub> =0, f=1.0MHz	—	—	1.5	pF
Reverse Recovery Time 反向恢復時間	t <sub>rr</sub>	I <sub>F</sub> =10mA	—	—	4.0	nS