

肖特基二極管
Schottky Diode

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FH1N5817~5819

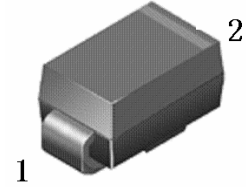
DESCRIPTION & FEATURES 概述及特點

Low leakage current 低反向電流

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

應用於低壓高頻保護電路

DO-214AC(SMA)



PIN ASSIGNMENT 引腳說明

PIN NAME 管腳符號	PIN NUMBER 引腳序號	FUNCTION 功能
	DO-214AC(SMA)	
A	1	Anode
C	2	Cathode

Maximum Ratings & Thermal Characteristics * ($T_a=25^{\circ}\text{C}$)

最大額定值及熱特性

CHARACTERISTIC 特性參數	Symbol 符號	Value 數值	Unit 單位
Average Rectified Current 整流電流	$I_{F(AV)}$	1.0	A
Surge Forward Current at $t < 1\text{s}$ and $T_A = 25^{\circ}\text{C}$ 正向浪湧電流	I_{FSM}	30	A
Total Device Dissipation 耗散功率	P_D	1.25	W
Derate above 25°C 超 25°C 時 P_D 降幅		12.5	mW/ $^{\circ}\text{C}$
Thermal Resistance Junction to ambient air 熱阻	$R_{\theta JA}$	20	$^{\circ}\text{C}/\text{mW}$
Junction and Storage Temperature 結溫和儲存溫度	T_J, T_{STG}	-65~150	$^{\circ}\text{C}$

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

ELECTRICAL CHARACTERISTICS 電特性

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如無特殊說明，溫度為 25°C)

CHARACTERISTIC 特性參數	Symbol 符號	Value 數值			Unit 單位
		1N5817	1N5818	1N5819	
Maximum Repetitive Reverse Voltage 最大反向電壓	V_{RRM}	20	30	40	V
Forward Voltage @1.0A 正向電壓	V_{FM}	450	550	600	mV
Forward Voltage @3.0A 正向電壓		750	875	900	
Reverse Current @rated V_R 反向電流	I_{RM}	$T_A=25^{\circ}\text{C}$ 0.5			mA
		$T_A=100^{\circ}\text{C}$ 10			
Typical Junction capacitance 結電容	C_J	110			pF