

## Schottky Diode 肖特基二極管

## FH1N5817~5819

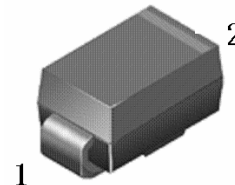
### DESCRIPTION & FEATURES 概述及特點

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<sub>a</sub>=25°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 <sub>F(AV)</sub>	1.0	A
Surge Forward Current at t < 1s and T <sub>A</sub> = 25°C 正向浪湧電流	I <sub>FSM</sub>	30	A
Total Device Dissipation 耗散功率	P <sub>D</sub>	1.25	W
Derate above 25°C 超 25°C 時 P <sub>D</sub> 降幅		12.5	mW/°C
Thermal Resistance Junction to ambient air 熱阻	R <sub>θJA</sub>	20	°C/mW
Junction and Storage Temperature 結溫和儲存溫度	T <sub>J</sub> , T <sub>STG</sub>	-65~150	°C

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

### 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	Value 數值			Unit 單位
		1N5817	1N5818	1N5819	
Maximum Repetitive Reverse Voltage 最大反向電壓	V <sub>RRM</sub>	20	30	40	V
Forward Voltage @1.0A 正向電壓	V <sub>FM</sub>	450	550	600	mV
Forward Voltage @3.0A 正向電壓		750	875	900	
Reverse Current @rated V <sub>R</sub> 反向電流	I <sub>RM</sub>	T <sub>A</sub> =25°C		0.5	mA
		T <sub>A</sub> =100°C		10	
Typical Junction capacitance 結電容	C <sub>J</sub>	110			pF