

Schottky Diode 肖特基二極管

FH1N5820~5822

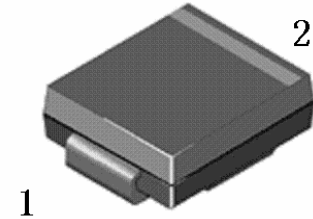
DESCRIPTION & FEATURES 概述及特點

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-214AB(SMC)



PIN ASSIGNMENT 引腳說明

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

Maximum Ratings & Thermal Characteristics * (T_a=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 _{F(AV)}	3.0	A
Surge Forward Current at t < 1s and T _A = 25°C 正向浪湧電流	I _{FSM}	80	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/°C
Thermal Resistance Junction to ambient air 熱阻	R _{θJA}	20	°C/mW
Junction and Storage Temperature 結溫和儲存溫度	T _J , T _{STG}	-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_A=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
		1N5820	1N5821	1N5822	
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}	475	500	525	mV
Forward Voltage @ 3.0A 正向電壓		850	900	950	
Reverse Current @ rated V _R 反向電流	I _{RM}	T _A =25°C		0.5	mA
		T _A =100°C		20	
Typical Junction capacitance 結電容	C _J	190			pF