



SM5817 THRU SM5819

SURFACE MOUNT SCHOTTKY RECTIFIERS

特征 FEATURES

- 低漏電流，高效率。Low power loss, high efficient
- 大電流承受能力。High surge current capability.
- 正向壓降低。Low forward voltage drop
- 過電壓保護。Guarding for overvoltage protection
- 高溫焊接保證：250°C/10秒。1.375", (9.5mm) lead lengths

High temperature soldering guaranteed:

250°C/10 seconds/1.375", (9.5mm) lead lengths

機械數據 MECHANICAL DATA

· 封裝：模型塑膠採用 UL94V-0 公認的火焰延緩環氧樹脂。

Case: Molded plastic use UL94V-0 recognized flame retardant epoxy

· 端子：鍍錫端子。Terminals: Plated terminals

· 极性：色環端表示陰極。Polarity: Color band on body denotes cathode

· 安裝位置：任意。Mounting position: Any

· 重量：0.1296 克。Weight: 0.1296 gram

極限值和電參數 TA=25°C 除非另有規定。

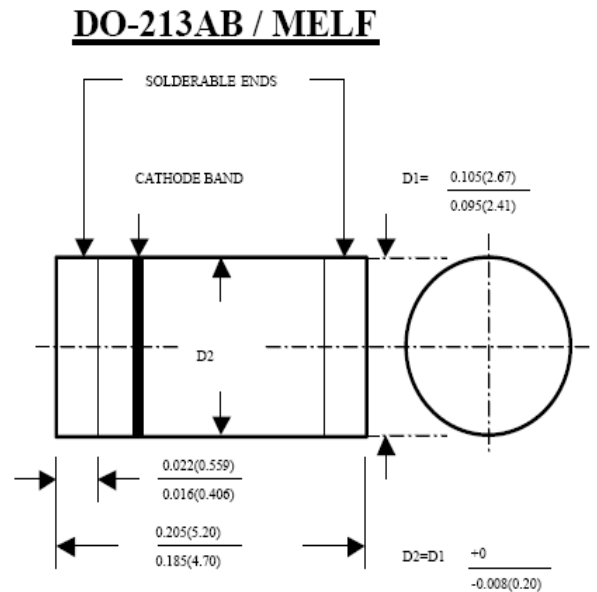
單相、正半弦波、60HZ、抗阻或電感負載。為電容裝載，減少電流的 20%

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. Unless otherwise specified.

Single phase, half sine wave, 60HZ, resistive or inductive load.

For capacitive load, derate current by 20%



	符號 SYMBOL	SM5817	SM5818	SM5819	單位 UNITS
最大峰值反向電壓 Maximum Current Peak Reverse Voltage	VRRM	20	30	40	Volts
最大反向有效電壓 Maximum RMS Voltage	VRMS	14	21	28	Volts
最大直流阻斷電壓 Maximum DC Blocking Voltage	VDC	20	30	40	Volts
最大正向平均整流電流 Maximum Average Forward Rectified Current	I(AV)	1.0			Amps
正向峰值浪涌電流 Peak Forward Surge Current Single Sine-wave on Rated Load (JEDEC Method)	IFSM	25			Amps
1.0A 直流電時最大正向瞬間電壓降 Maximum Instantaneous Forward Voltage Drop at 1.0A DC	VF	0.45	0.55	0.6	Volts
最大反向漏電流 Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	0.5 10			mA
典型熱阻 Typical Thermal Resistance	RθJA	80			°C/W
典型結電容 VR= 4.0V, f = 1MHZ Typical Junction Capacitance	CJ	110			pF
工作溫度和存儲溫度 Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +125			°C



FIG. 1- 輸出電流降額曲線
FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

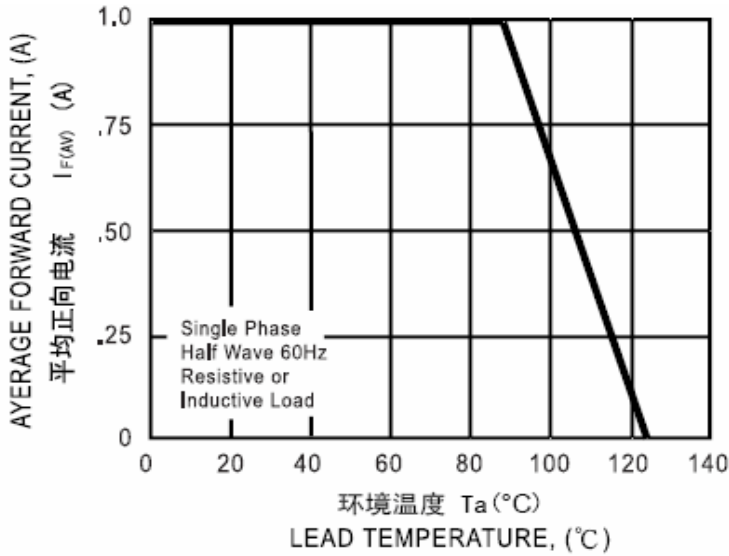


FIG. 2 - 浪涌特性曲線 (最大值)
FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

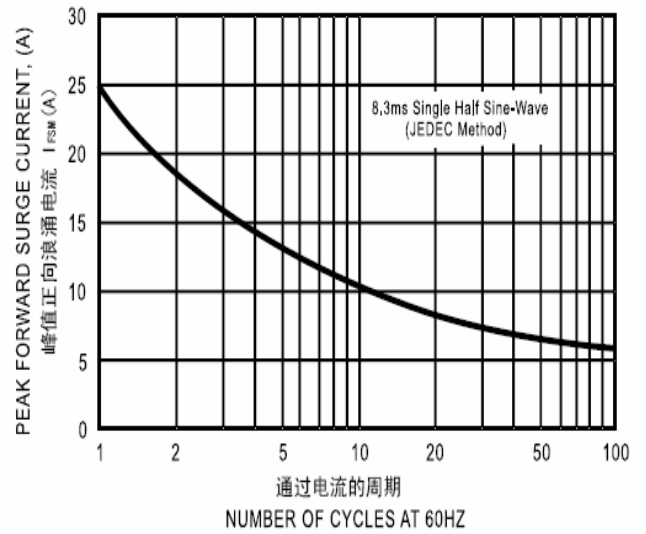


FIG. 3 - 反向特性曲線(典型值)
FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

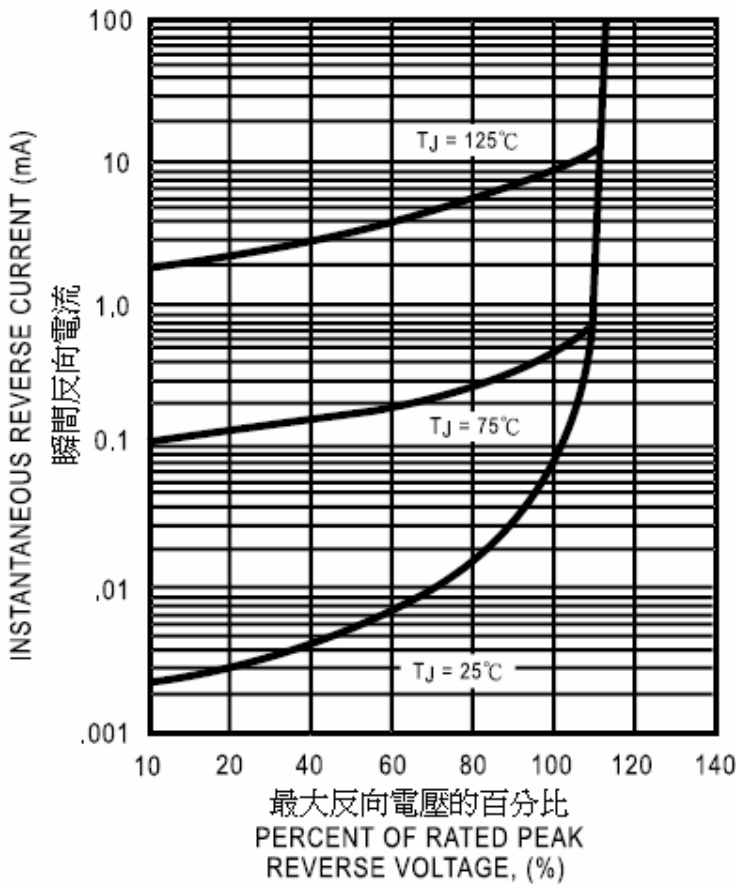


FIG. 4 - 瞬間正向特性曲線(典型值)
FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

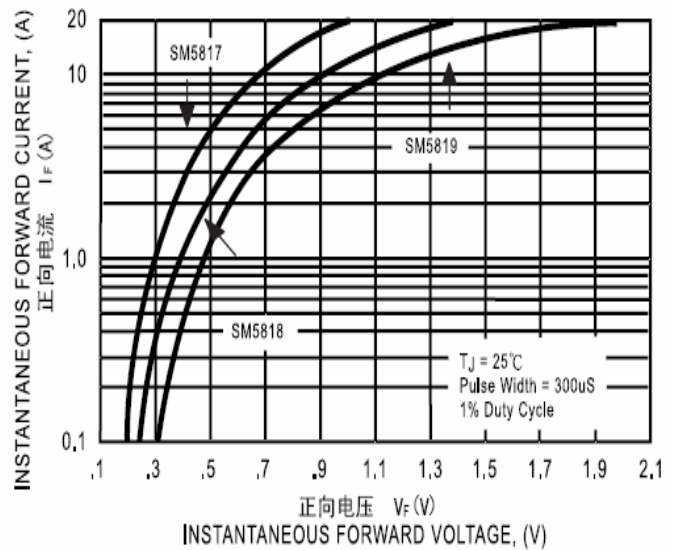


FIG. 5 - 表面電容(典型值)
FIG. 5 - TYPICAL JUNCTION CAPACITANCE

