

SM4933 THRU SM4937

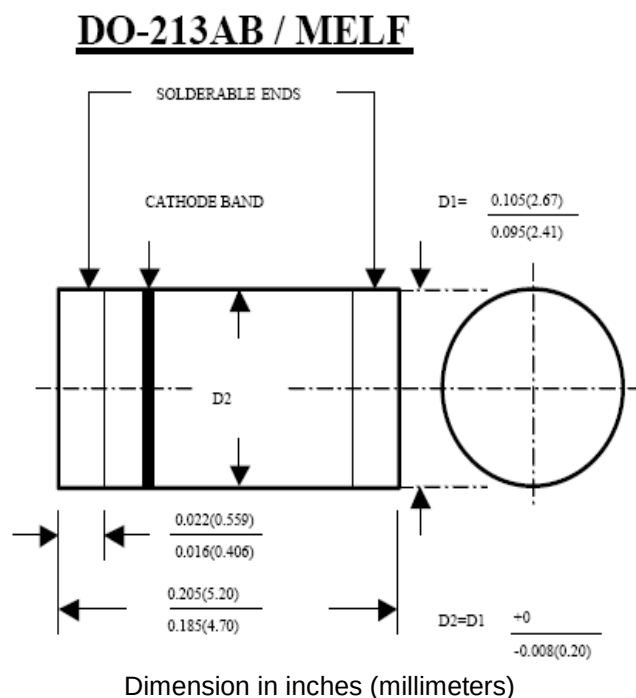
SURFACE MOUNT GLASS PASSIVATED FAST SWITCHING RECTIFIER

特征 FEATURES

- 理想表面粘裝應用。 Ideal for surface mounted applications.
- 低漏電。 Low leakage current.
- 玻鈍晶片。 Glass passivated chips.
- 快速轉換。 Fast switching.
- 高溫焊接保証：250°C/10 秒，0.375”(9.5mm)引線長度。
High temperature soldering guaranteed :
250°C/10 seconds/.375”,(9.5mm) lead lengths

機械數據 MECHANICAL DATA

- 封 裝：模型塑膠採用 UL94V-0 公認的火焰延緩环氧树脂。Case: Molded plastic use UL94V-0 recognized flame retardant epoxy.
- 端 子：鍍錫端子,可焊性按照 MIL-STD-202 標準,208 方法。Terminals: Plated terminals, solderable per MIL-STD-202, method 208
- 極 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：0.036 克。Weight: 0.036 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	SM4933	SM4934	SM4935	SM4936	SM4937	UNITS
最大峰值反向電壓 Maximum Current Peak Reverse Voltage	VRRM	50	100	200	400	600	Volts
最大反向有效電壓 Maximum RMS Voltage	VRMS	35	70	140	280	420	Volts
最大直流阻斷電壓 Maximum DC Blocking Voltage	VDC	50	100	200	400	600	Volts
最大正向平均整流電流 Maximum Average Forward Rectified Current T _T =55℃	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	30					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	1.3					Volts
最大反向漏電流 Maximum DC Reverse Current T _A =25℃ at Rated DC Blocking Voltage T _A =125℃	IR	5.0 100.0					μA
最大反向恢復時間 Maximum Reverse Recovery Time , Test Conditions : I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	Trr	200					nS
典型結電容 VR= 4.0V,f = 1.0MHZ Typical Junction Capacitance	CJ	15					pF
工作溫度和存儲溫度 Operating Junction And Storage Temperature Range	TJ TSTG	-55 to +150					℃

RATING AND CHARACTERISTIC CURVES SM4933 THRU SM4937

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

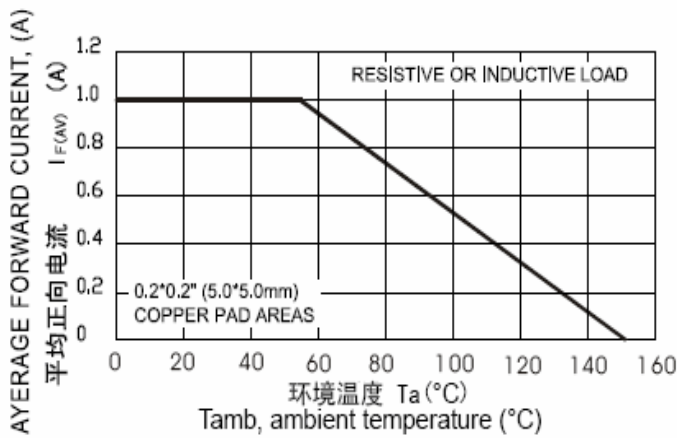


FIG. 2 –浪涌特性曲線 (最大值)
FIG. 2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

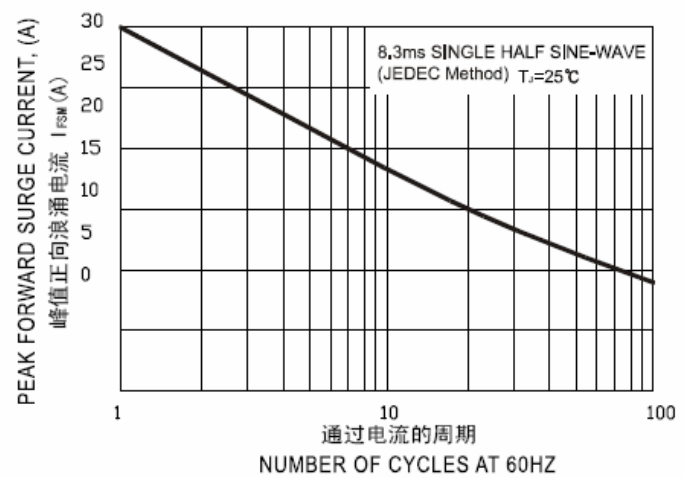


FIG. 3 –反向特性曲線(典型值)
FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

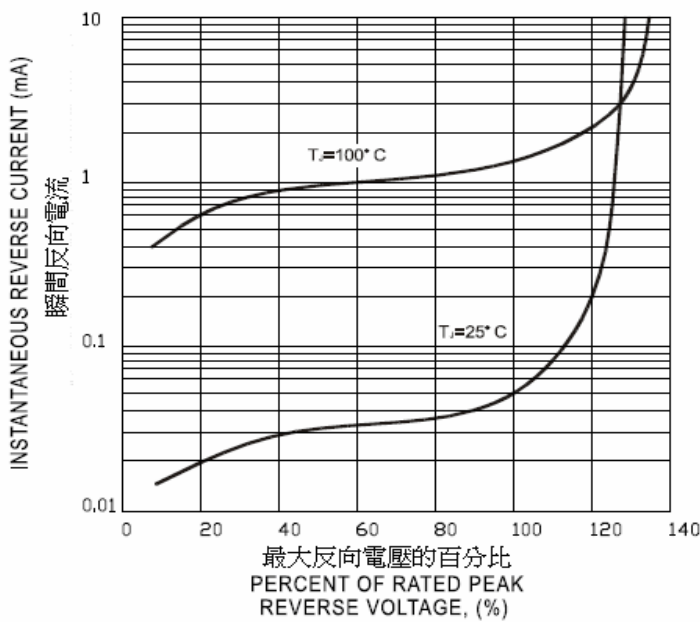


FIG. 4 –瞬間正向特性曲線(典型值)
FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

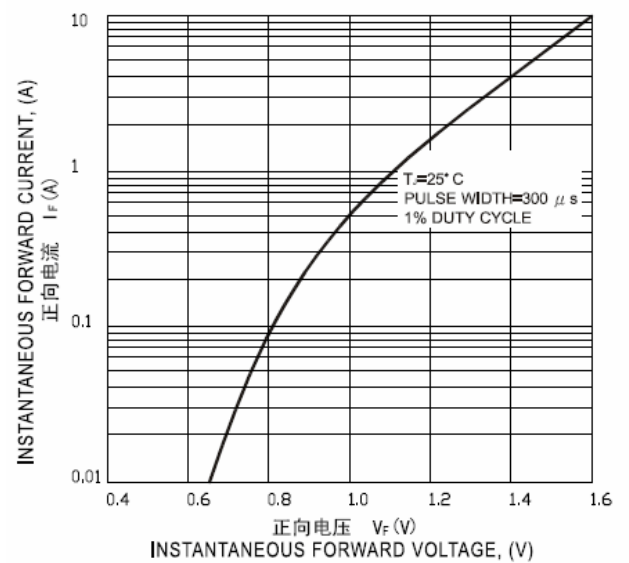


FIG. 5 –表面電容(典型值)
FIG. 5 –TYPICAL JUNCTION CAPACITANCE

