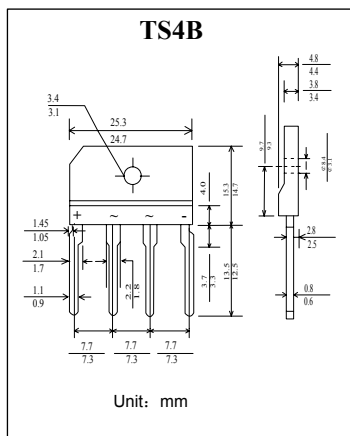




# Single-phase Silicon Bridge Rectifier

## TS4B05G

Reverse Voltage 600 V  
Forward Current 4.0 A



### 特征 Features

- 低的反向漏电流 Low reverse leakage
- 较强的正向浪涌承受能力 High forward surge capability
- 浪涌承受能力: 120 A Surge overload rating: 120 Amperes peak

### 机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded Plastic
- 极性: 标记模压或印于本体 Polarity: Symbols molded or marked on body
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性  $T_A = 25^\circ\text{C}$  除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

	符号 Symbols	TS4B05G	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	600	V
最大均方根电压 Maximum RMS voltage	$V_{RMS}$	420	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	600	V
最大正向平均整流电流 $T_C = 100^\circ\text{C}$ Maximum average forward rectified current	$I_{F(AV)}$	4.0	A
峰值正向浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	$I_{FSM}$	120	A
最大反向峰值电流 @ $T_A = 75^\circ\text{C}$ Maximum peak reverse current full cycle	$I_{R(AV)}$	30	$\mu\text{A}$
典型热阻 Typical thermal resistance	$R_{\theta JA}$	5.5	$^\circ\text{C/W}$
工作结温和存储温度 Operating junction and storage temperature range	$T_j, T_{STG}$	-55 --- +150	$^\circ\text{C}$

电特性  $T_A = 25^\circ\text{C}$  除非另有规定。

Electrical Characteristics Ratings at  $25^\circ\text{C}$  ambient temperature unless otherwise specified.

	符号 Symbols	TS4B05G	单位 Unit
最大正向电压 $I_F = 4.0\text{A}$ Maximum forward voltage	$V_F$	1.1	V
最大反向电流 $T_A = 25^\circ\text{C}$ Maximum reverse current $T_A = 125^\circ\text{C}$	$I_R$	5 500	$\mu\text{A}$
典型结电容 $V_R = 4.0\text{V}, f = 1\text{MHz}$ Type junction capacitance	$C_j$	40	pF



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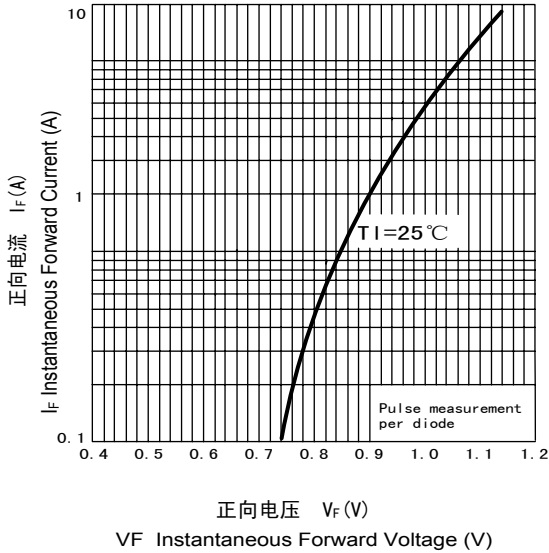
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### Characteristic Curves

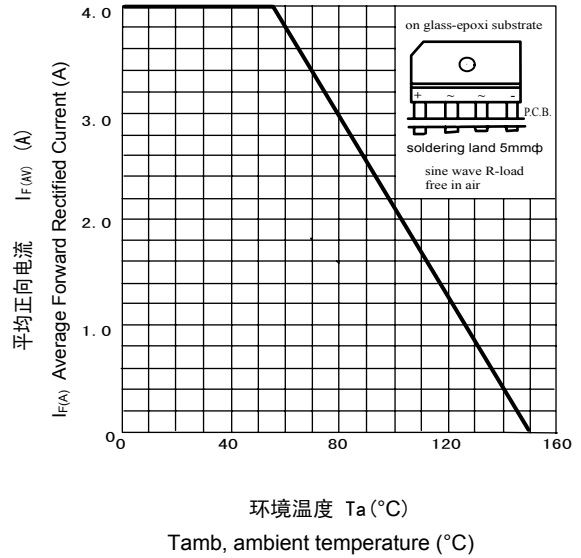
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC

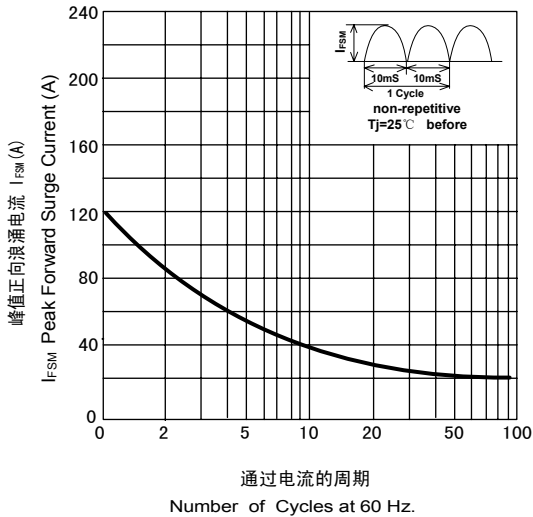


正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)  
MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



功率损耗曲线

FORWARD POWER DISSIPATION

