SIYU®

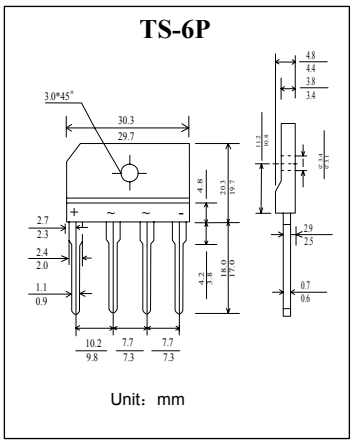
TS6P05G

塑封硅整流桥堆

反向电压 600V
正向电流 6.0 A

Single-phase Silicon Bridge Rectifier

Reverse Voltage 600 V
Forward Current 6.0 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：150 A Surge overload rating:150 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 TA = 25℃ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	符号 Symbols	TS6P05G	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 TC =100℃ Maximum average forward rectified current	$I_{F(AV)}$	6.0	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}	150	A
最大反向峰值电流 @TA = 75℃ Maximum peak reverse current full cycle	$I_{R(AV)}$	30	μA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	1.8	℃/W
工作结温和存储温度 Operating junction and storage temperature range	Tj, TSTG	-55 --- +150	℃

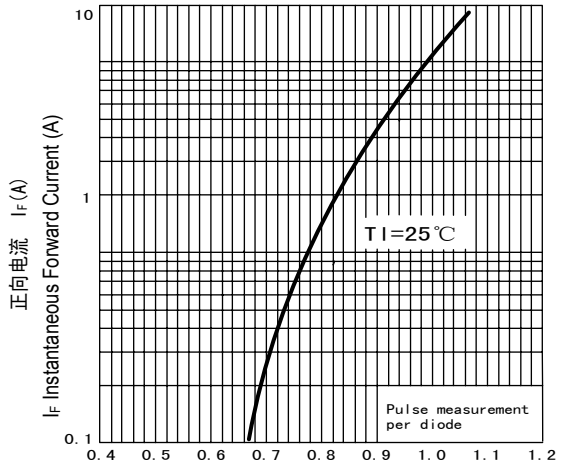
电特性 TA = 25℃ 除非另有规定。

Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

		符号 Symbols	TS6P05G	单位 Unit
最大正向电压 Maximum forward voltage	I_F =6.0A	V_F	1.0	V
最大反向电流 Maximum reverse current	TA= 25℃ TA= 125℃	I_R	5.0 500	μA
典型结电容 V_R = 4.0V, f = 1MHz Type junction capacitance		Cj	40	pF

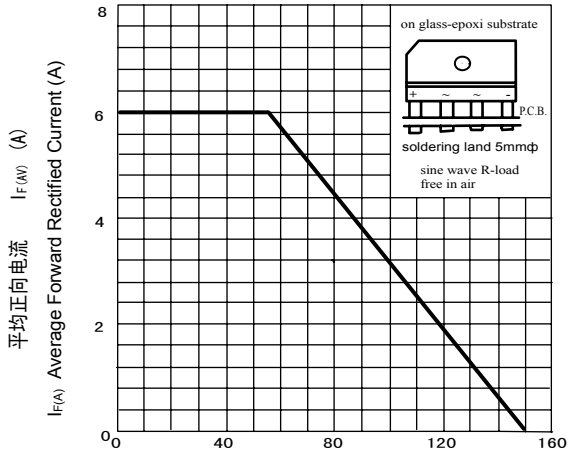
特性曲线　Characteristic Curves

正向特性曲线（典型值）
TYPICAL FORWARD CHARACTERISTIC



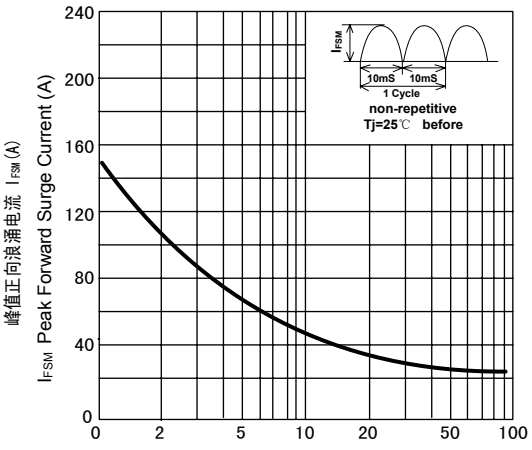
正向电压　V_F(V)
VF Instantaneous Forward Voltage (V)

正向电流降额曲线
FORWARD CURRENT DERATING CURVE



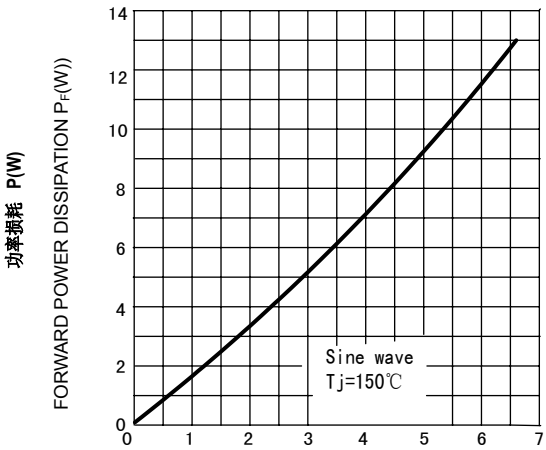
环境温度 Ta(°C)
Tamb, ambient temperature (°C)

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



通过电流的周期
Number of Cycles at 60 Hz.

功率损耗曲线
FORWARD POWER DISSIPATION



平均整流电流　I_O(A)
AVERAGE RECGIFIED FORWARD
CURRENT I_o(A)