S5A-S5M

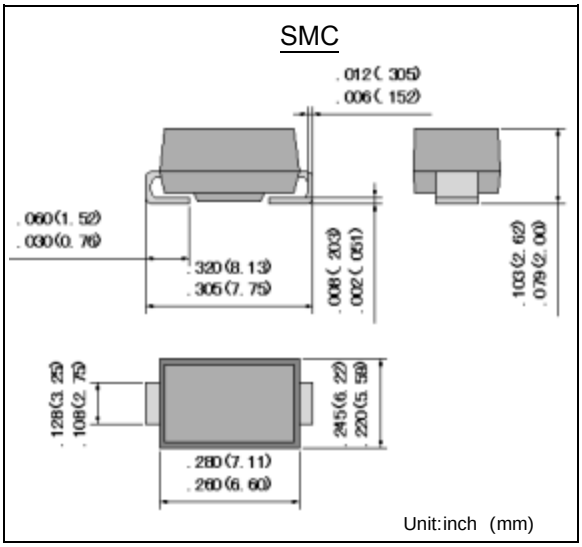
表面安装普通整流二极管

反向电压 50~1000 V

正向电流5.0 A

SurfaceMountedGeneral-purposeRectifiers

Reverse Voltage 50 ~1000VForward Current5.0 A



特征Features

- 反向漏电流低Lowreverseleakage
- 正向浪涌承受能力强 Highforwardsurgecapability
- 高信赖性High reliability
- 高温焊接保证
  Hightemperaturesolderingguaranteed:260℃/10 秒
  260℃/10seconds
- 引线和管体皆符合RoHS标准
  Lead and body according withRoHSstandard

机械数据MechanicalData

- 封装外形:SMC 塑封 Case:SMCMoldedplastic
- 环氧树脂：UL易燃等级：94V-0
  Epoxy:UL 94V-0 rateflameretardant
- 引脚：镀锡,无铅 Lead:Puretinplated,leadfree

最大值和特性TA = 25℃除非另有规定。

MaximumRatings&CharacteristicsRatingsat 25℃ ambienttemperatureunlessotherwisespecified.

参数 Parameter	符号 Symbols	S5A	S5B	S5D	S5G	S5J	S5K	S5M	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peakreverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大均方根电压 MaximumRMSvoltage	V_{RMS}	35	70	140	280	420	560	700	V
最大直流阻断电压 MaximumDCblocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	5.0							A
正向不重复浪涌电流 8.3 ms单一正弦半波 Non-repetitive peak forward surge current8.3 mssinglehalfsine-wave	I_{FSM}	150							A
最大正向电压 @IF=5.0A Maximum forward voltage	V_F	1.1							V
最大反向电流 @V_{DC}TA= 25℃ Maximum reverse current	I_R	10							μA
典型热阻 Typicalthermalresistance(Note1)	RθJA	50							℃/W
工作结温和存储温度 Operatingjunction and storage temperature rang	Tj, TSTG	-55 ---+150							℃

备注Note:

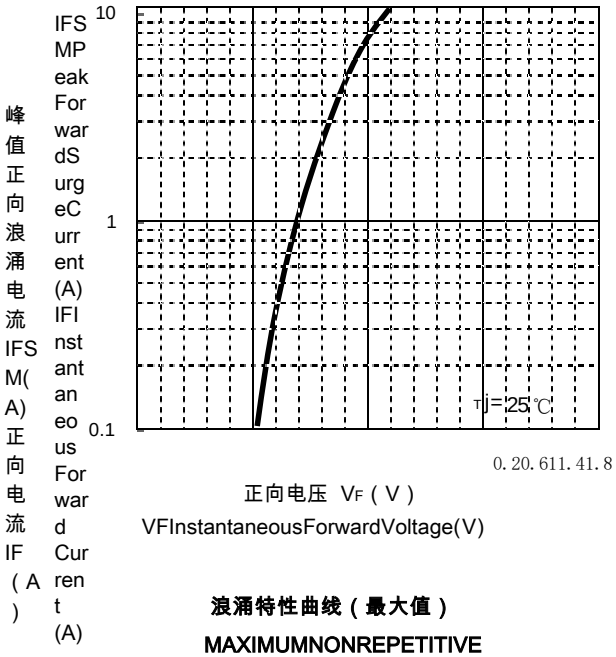
1)安装在PCB板上，从PN结到周围环境的热阻。

1) Thermalresistancefromjunctiontoambient,PCBmounted.

特性曲线CharacteristicCurves

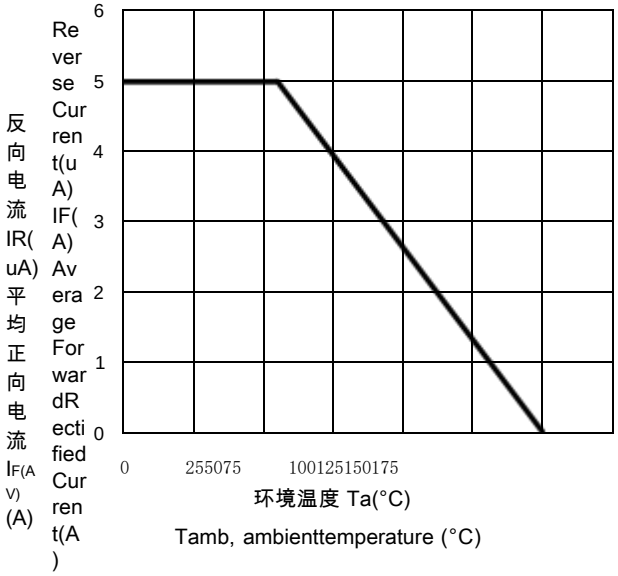
正向特性曲线（典型值）

TYPICALFORWARDCHARACTERISTIC



正向电流降额曲线

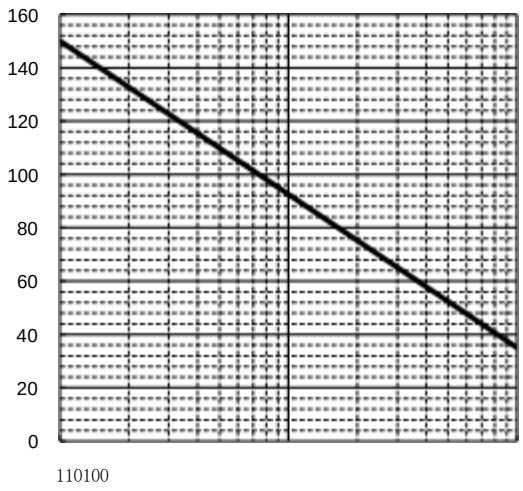
FORWARDCURRENTDERATINGCURVE



浪涌特性曲线（最大值）

MAXIMUMNONREPETITIVE

PEAKFORWARDSURGECURRENT



反向特性曲线

TypicalReverseCharacteristics