

塑封肖特基二极管

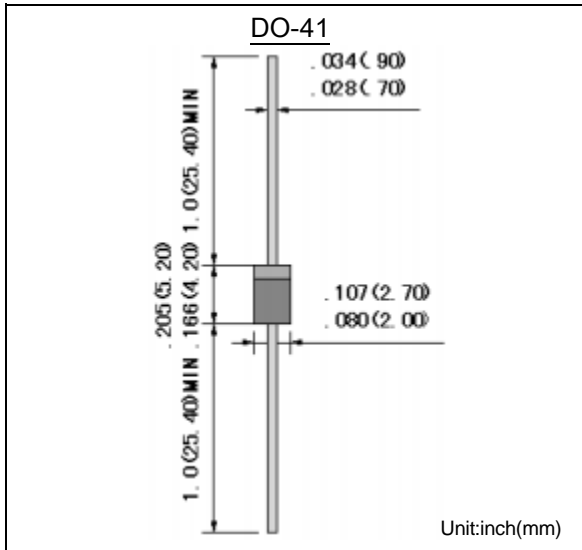
反向电压 20~ 40 V

正向电流1.0 A

SchottkyBarrierPlasticRectifiers

ReverseVoltage 20~ 40 V

ForwardCurrent1.0 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 Highreliability
- 高温焊接保证
Hightemperaturesolderingguaranteed:260°C/10 秒,引线长度:0.375" (9.5mm)
260°C/10seconds,9.5mmleadlength
- 引线 and 管体皆符合RoHS标准
Lead and body according withRoHSstandard

机械数据MechanicalData

- 封装外形:DO-41 塑封 Case:DO-41Moldedplastic
- 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 $T_A = 25^\circ\text{C}$ 除非另有规定。

MaximumRatings&CharacteristicsRatingsat 25°C ambienttemperatureunlessotherwise specified.

参数 Parameter	符号 Symbols	1N5817	1N5818	1N5819	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peakreverse voltage	V_{RRM}	20	30	40	V
最大均方根电压 MaximumRMSvoltage	V_{RMS}	14	21	28	V
最大直流阻断电压 MaximumDCblocking voltage	V_{DC}	20	30	40	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	1.0			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}	30			A
最大正向电压 @ $I_F=1.0\text{A}$ Maximum forward voltage	V_F	0.45	0.55	0.60	V
最大反向电流 @ $V_{DC}T_A=25^\circ\text{C}$ Maximum reversecurrent	I_R	30			μA
典型热阻 Typicalthermalresistance (Note1)	$R_{\theta JA}$	60			$^\circ\text{C}/\text{W}$
工作结温 Operatingjunction	T_J	-55 ---+125			$^\circ\text{C}$
存储温度 Storage temperature rang	T_{STG}	-55 ---+150			$^\circ\text{C}$

备注Note:

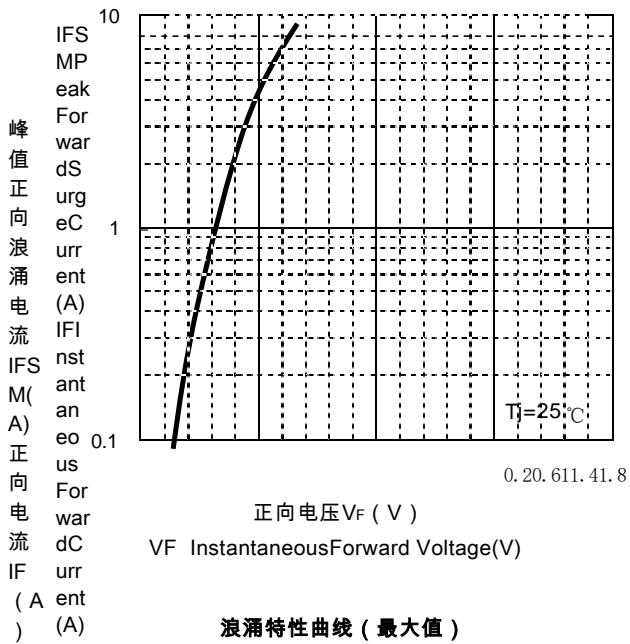
1)引线长度 0.375" (9.5 mm), 安装在PCB板上, 从PN结到周围环境的热阻。

1) Thermalresistancefromjunctiontoambientat 0.375" (9.5 mm)leadlength,PCBmounted.

特性曲线 Characteristic Curves

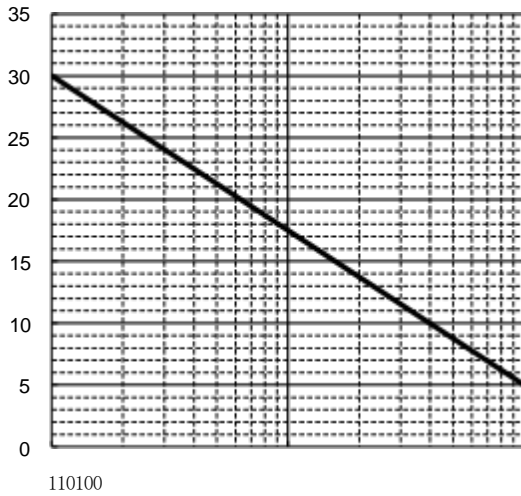
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



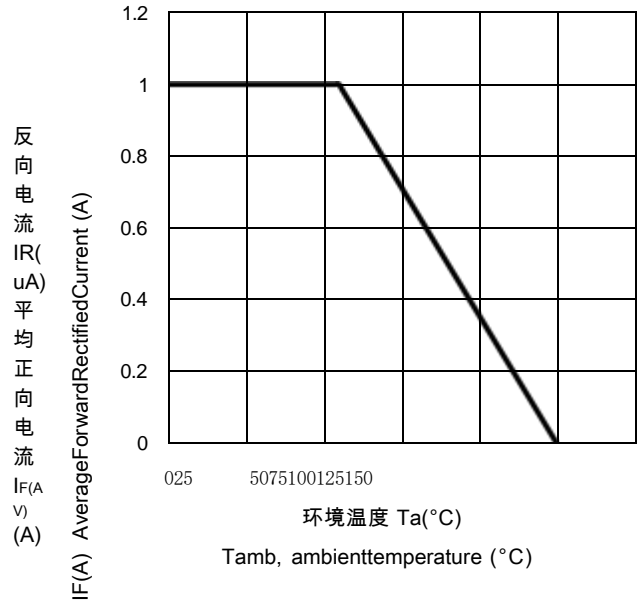
浪涌特性曲线 (最大值)

MAXIMUM NONREPETITIVE PEAK FORWARD SURGE CURRENT



正向电流降额曲线

FORWARD CURRENT DERATING CURVE



反向特性曲线

Typical Reverse Characteristics

