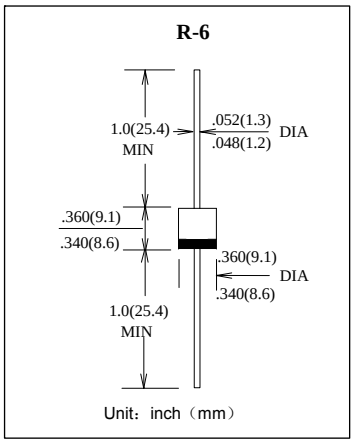
SIYU®

20SQ020.....20SQ060

塑封肖特基二极管

PLASTIC SCHOTTKY BARRIER RECTIFIER



特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 高温焊接保证 High temperature soldering guaranteed:
  260℃/10 秒, 0.375" (9.5mm)引线长度。
  260℃/10 seconds, 0.375" (9.5mm) lead length,
- 引线可承受5 磅 (2.3kg) 拉力。 5 lbs. (2.3kg) tension
- 引线和管体皆符合RoHS标准 。
  Lead and body according with RoHS standard

机械数据 Mechanical Data

- 端子: 镀锡轴向引线 Terminals: Plated axial leads
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和电参数 TA = 25℃ 除非另有规定。

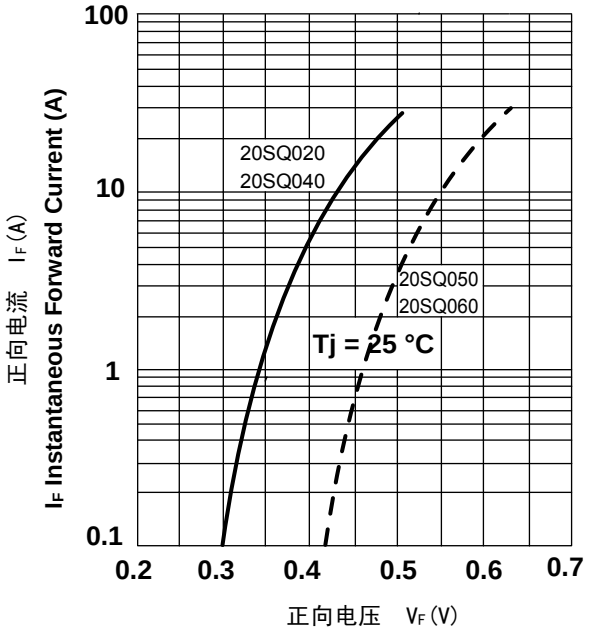
Maximum Ratings & Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	符号 Symbols	20SQ020	20SQ040	20SQ050	20SQ060	单位 Unit
最大峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	20	40	50	60	V
最大反向有效值电压 Maximum RMS voltage	$V_{R(RMS)}$	14	28	35	42	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	20	40	50	60	V
最大正向平均整流电流 Maximum average forward rectified current	I_{FM}	20				A
最大正向电压降 IF = 20A Maximum forward voltage	V_F	0.50	0.50	0.70	0.70	V
正向峰值浪涌电流 10mS单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	280				A
最大反向漏电流 TA = 25℃ Maximum reverse current TA = 100℃	IR	0.50 50				mA
典型热阻 Typical thermal resistance	$R_{\theta JC}$	3.5				℃/W
典型结电容 V_R = 4.0V, f = 1.0MHz Type junction capacitance	Cj	450				pF
结温 In DC forward mode Junction tempeature Range VR≤80%V_{RRM}	Tj	-55 --- +200 -55 --- +150				℃
工作温度和存储温度 Operating junction and storage temperature range	T_{STG}	-55 --- +150				℃

特性曲线 Characteristic Curves

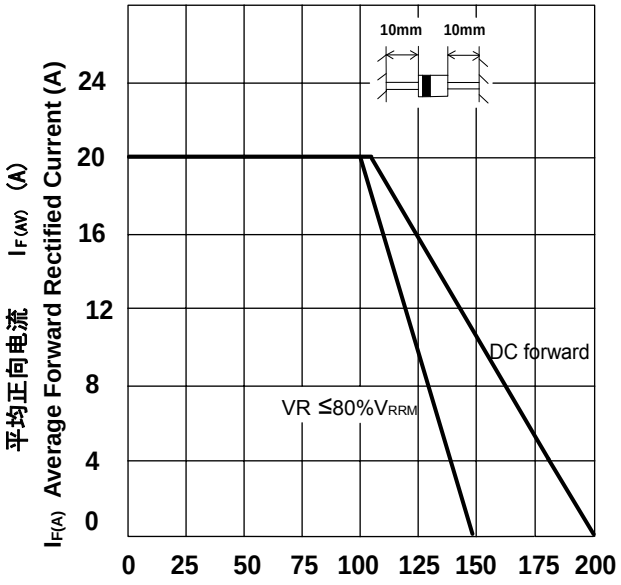
正向特性曲线（典型值）

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

