

表面安装快恢复整流二极管

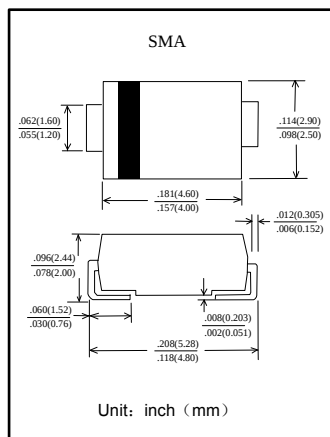
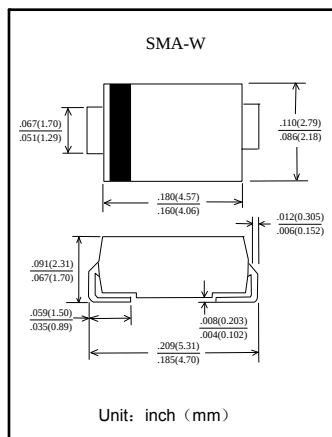
反向电压 50 ---1000 V

正向电流 1.0 A

Surface Mount Fast Recover Rectifier

Reverse Voltage 50 to 1000 V

Forward Current 1.0 A



特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力较强 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:
260℃/10 秒 seconds at terminals
- 引线 and 管体皆符合RoHS标准 。
Lead and body according with RoHS standard

机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 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	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking 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	$I_{F(AV)}$	1.0							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}	30							A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	45							℃/W
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-55 --- +150							℃

电特性 TA = 25℃ 除非另有规定。

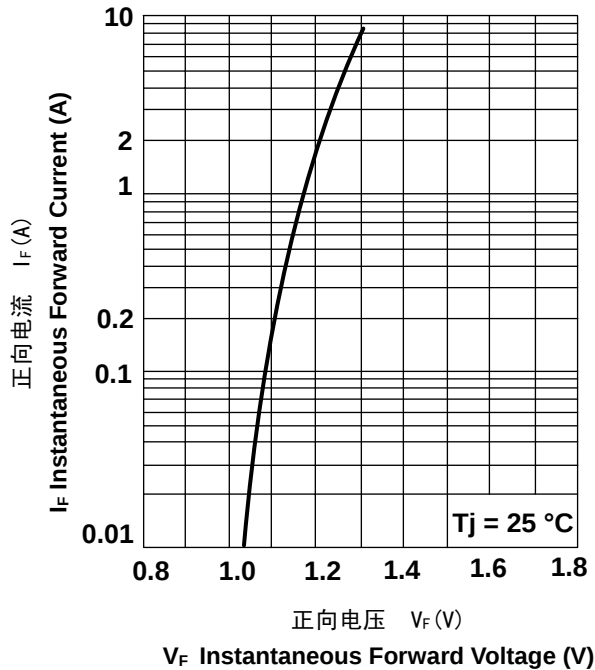
Electrical Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

	符号 Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	单位 Unit
最大正向电压 $I_F = 1.0A$ Maximum forward voltage	V_F	1.3							V
最大反向电流 $T_A = 25^\circ C$ $T_A = 100^\circ C$ Maximum reverse current	I_R	5.0 100							μA
最大反向恢复时间 $I_F = 0.5A$ $I_R = 1.0A$ $I_{RR} = 0.25A$ MAX. Reverse Recovery Time	t_{rr}	150				250	500		nS
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	C_j	15							pF

特性曲线 Characteristic Curves

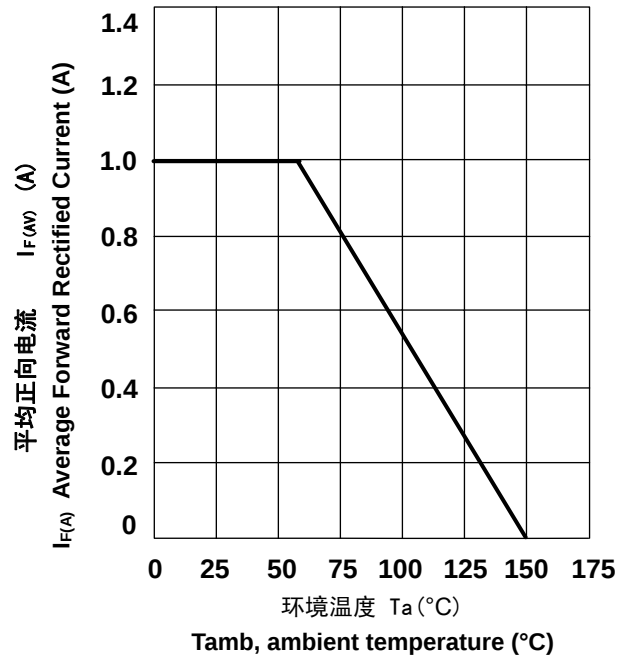
正向特性曲线（典型值）

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