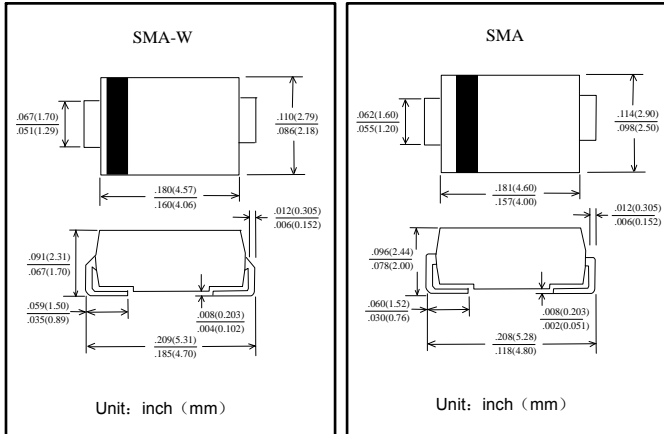


表面安装高效率整流二极管  
反向电压 50 --- 1000 V  
正向电流 1.0 A

Surface Mounted High-efficiency Rectifier  
Reverse Voltage 50 --- 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°C/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°C 除非另有规定。

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

	符号 Symbols	US1A	US1B	US1D	US1G	US1J	US1K	US1M	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							°C/W
工作结温和存储温度 Operating junction and storage temperature range	$T_j, T_{STG}$	-55 --- +150							°C

电特性 TA = 25°C 除非另有规定。

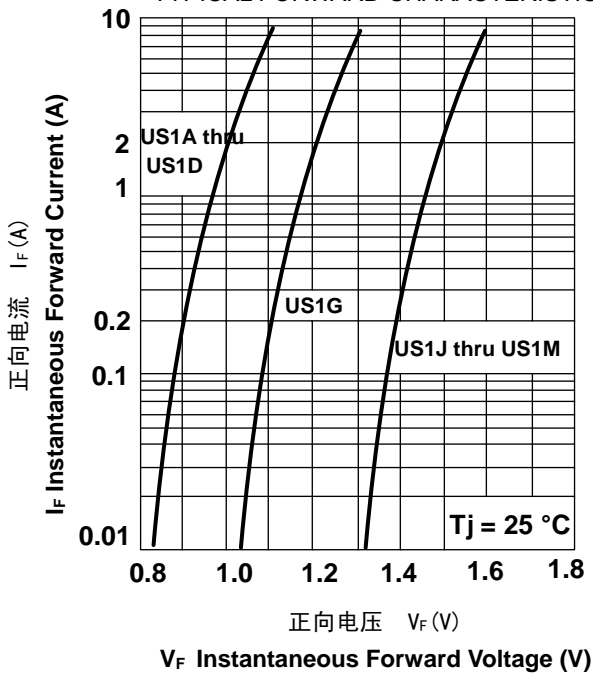
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	符号 Symbols	US1A	US1B	US1D	US1G	US1J	US1K	US1M	单位 Unit
最大正向电压 Maximum forward voltage $I_F = 1.0A$	$V_F$	1.0			1.3	1.7			V
最大反向电流 Maximum reverse current TA = 25°C TA = 125°C	$I_R$				10 500				μA
最大反向恢复时间 MAX. Reverse Recovery Time $I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A$	$t_{rr}$	50				75			nS
典型结电容 Type junction capacitance $V_R = 4.0V, f = 1MHz$	$C_j$	15							pF

特性曲线 Characteristic Curves

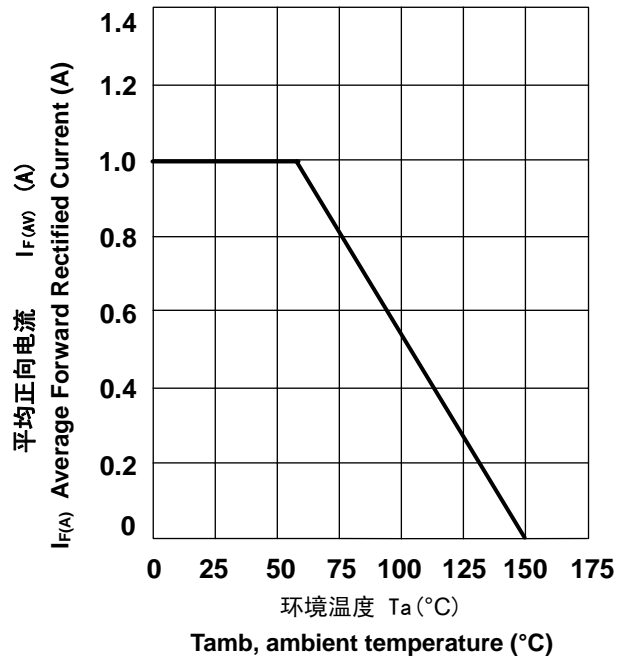
正向特性曲线 (典型值)

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

