

表面安装高效率整流二极管

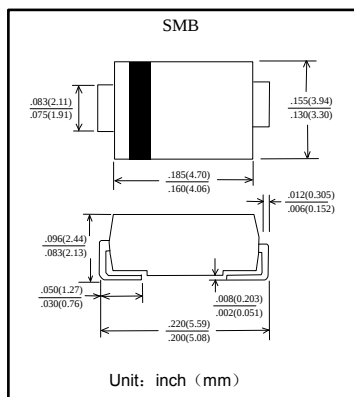
反向电压 50 --- 1000 V

正向电流 2.0 A

Surface Mounted High-efficiency Rectifier

Reverse Voltage 50 --- 1000 V

Forward Current 2.0 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	US2A	US2B	US2D	US2G	US2J	US2K	US2M	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	$I_{F(AV)}$	2.0							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}	50							A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	50							°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。

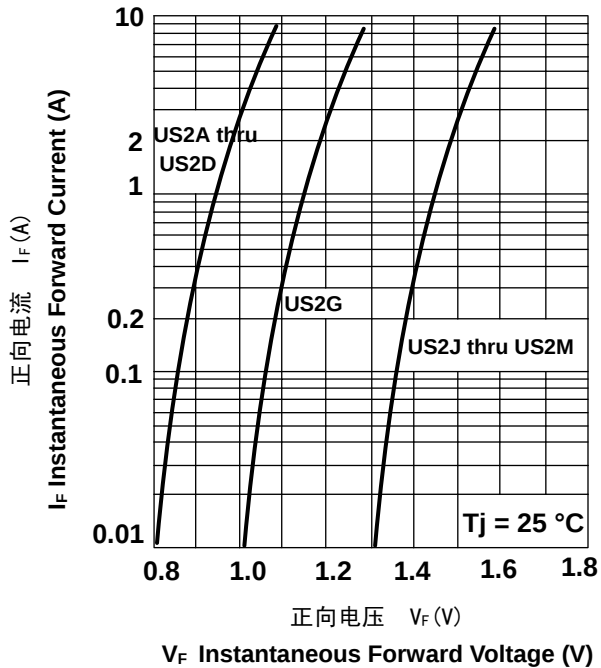
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	符号 Symbols	US2A	US2B	US2D	US2G	US2J	US2K	US2M	单位 Unit
最大正向电压 Maximum forward voltage	I _F =2.0A V _F	1.0			1.3	1.7			V
最大反向电流 Maximum reverse current	TA= 25℃ TA= 125℃ 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 trr	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

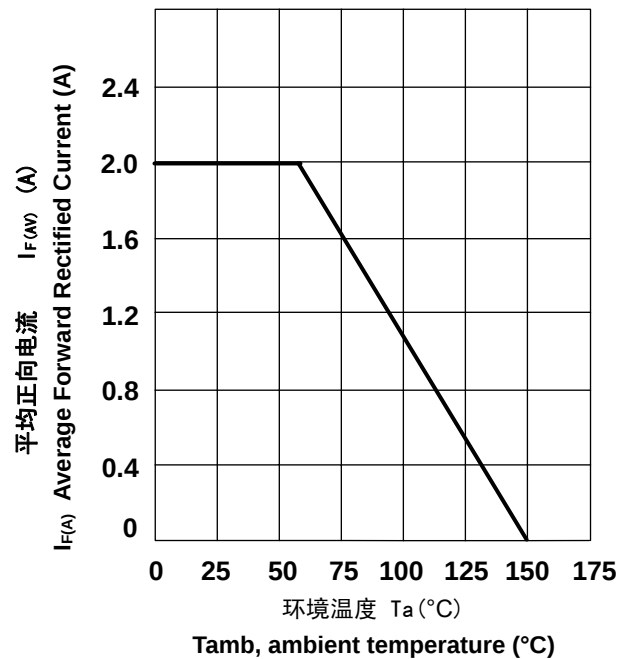
正向特性曲线（典型值）

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