

表面安装高效率整流二极管

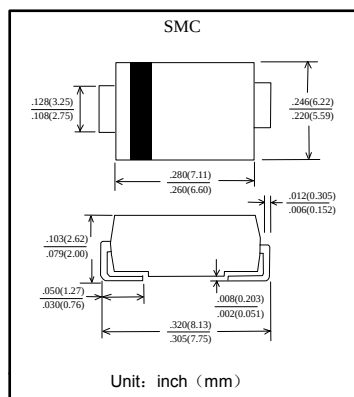
反向电压 50 --- 1000 V

正向电流 3.0 A

Surface Mounted High-efficiency Rectifier

Reverse Voltage 50 --- 1000 V

Forward Current 3.0 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	US3A	US3B	US3D	US3G	US3J	US3K	US3M	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	$I_{F(AV)}$	3.0							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}	100							A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	60							°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。

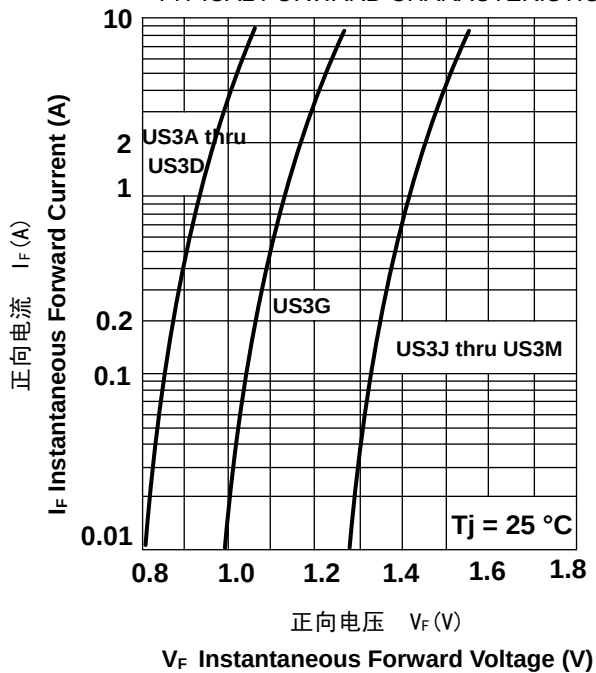
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	符号 Symbols	US3A	US3B	US3D	US3G	US3J	US3K	US3M	单位 Unit
最大正向电压 $I_F = 3.0A$ Maximum forward voltage	V_F	1.0			1.3	1.7			V
最大反向电流 Maximum reverse current	I_R				10				μA
最大反向恢复时间 MAX. Reverse Recovery Time	t_{rr}	50			75				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

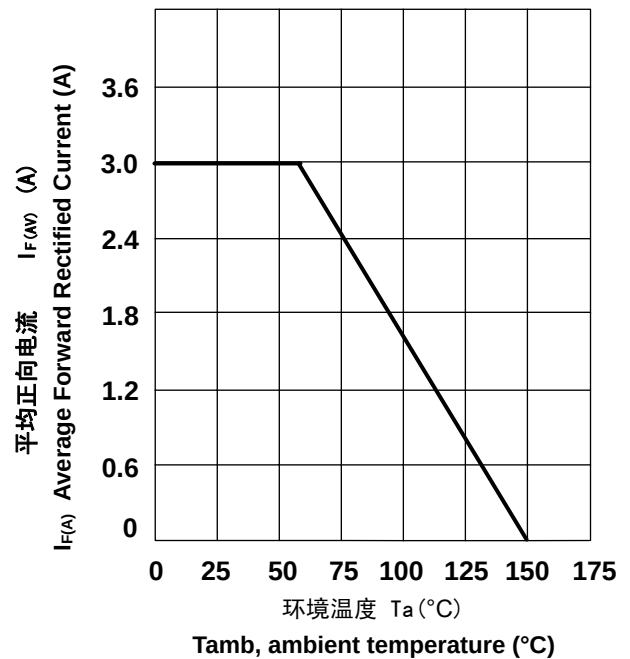
正向特性曲线（典型值）

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