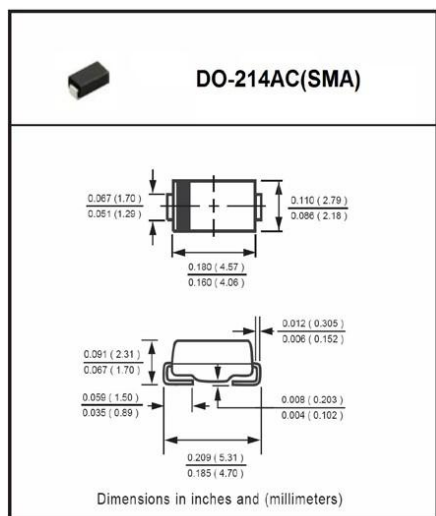


表面安装超快速整流二极管
反向电压50 --- 1000
V 正向电流1.0A

Surface Mount Ultra Fast Recover Rectifiers
Reverse Voltage 50 to 1000 V
Forward Current 1.0 A



特征 Features

- 低的反向漏电流 Low reverse leakage
- 玻璃钝化芯片 Glass passivated chip junction
- 较强的正向浪涌承受能力 High forward surge capability
- 快速开关高频应用 Fast switching for high efficiency
- 高温焊接保证 260°C/10秒 High temperature soldering guaranteed: 260°C/10 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 $T_A = 25^\circ\text{C}$ 除非另有规定。

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

	Symbols	US1A	US1B	US1D	US1G	US1J	UF1K	US1M	Unit
最大反向峰值电压 Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
最大反向有效值电压 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
正向峰值浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	30							A
最大反向峰值电流 @ $T_A = 75^\circ\text{C}$ Maximum peak reverse current full cycle	$I_{R(AV)}$	30							Ua
典型热阻 Typical thermal resistance	$R_{\theta JA}$	110							$^\circ\text{C}/\text{W}$
工作结温和存储温度 Operating junction and storage temperature range	T_J, T_{STG}	-50---+150							$^\circ\text{C}$

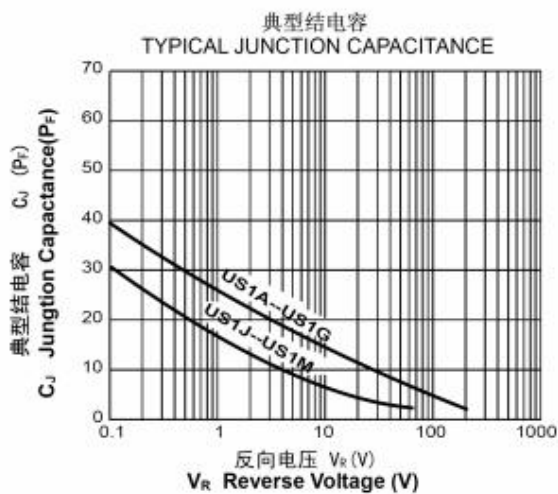
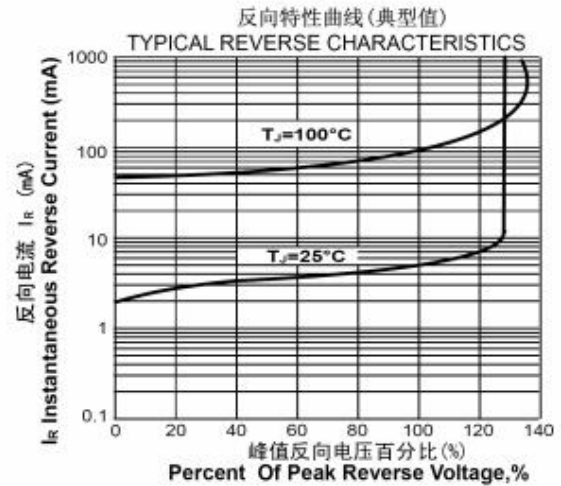
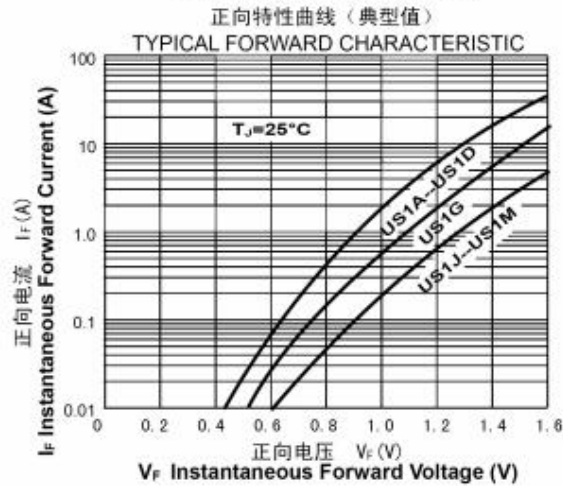
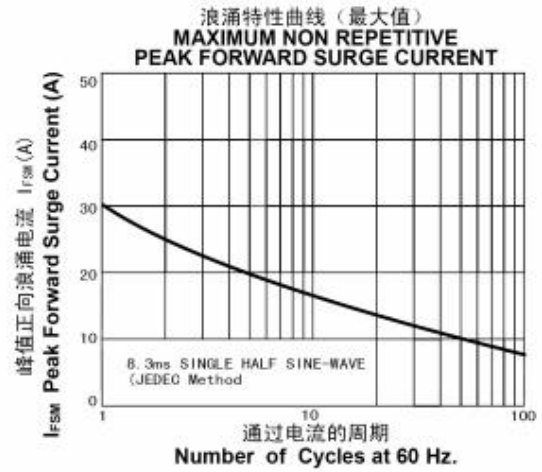
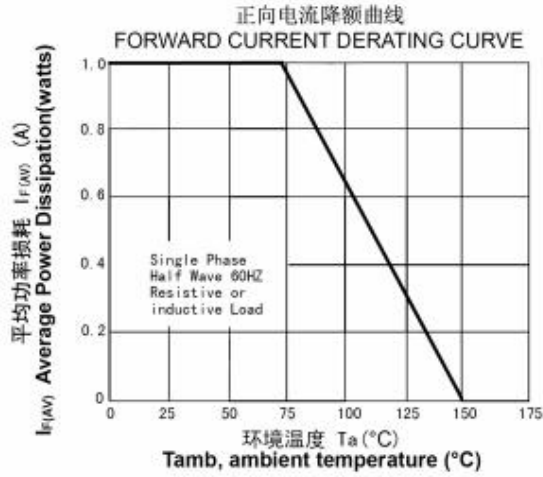
电特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

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

	Symbols	US1A	US1B	US1D	US1G	US1J	UF1K	US1M	Unit
最大正向电压 $I_F = 1.0\text{A}$ Maximum forward voltage	V_F	1.0			1.3	1.7			V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current	I_R	5.0							μA
最大反向恢复时间 $I_F = 0.5\text{A}$ $I_R = 1.0\text{A}$ $I_{RR} = 0.25\text{A}$ MAX. Reverse Recovery Time	t_{rr}	50				75			nS
典型结电容 $V_R = 4.0\text{V}$, $f = 1\text{MHz}$ Type junction capacitance	C_J	15							pF



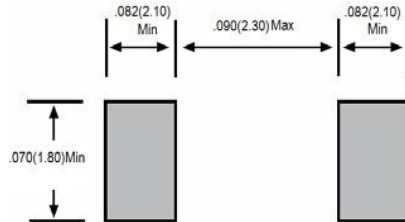
特性曲线 RATING AND CHARACTERISTIC CURVES





US1A thru US1M

Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
US1A-US1M	DO-214AC	5000	Tape & Reel – 12mm/13" tape

Tape and Reel Specification

