

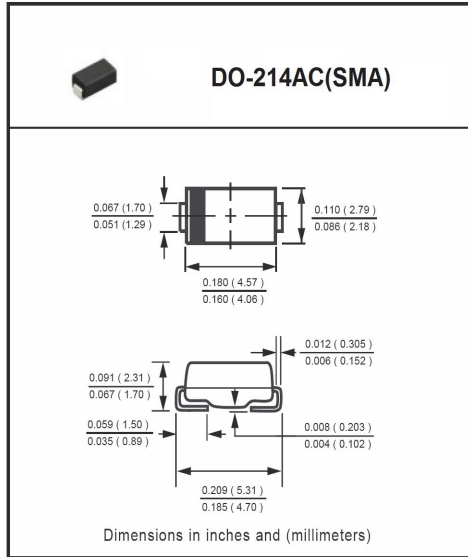


SHANGSI

# US2AA thru US2MA

表面安装超快速整流二极管  
反向电压 50 --- 1000 V  
正向电流 2.0A

Surface Mount Ultra Fast Recover Rectifiers  
Reverse Voltage 50 to 1000 V  
Forward Current 2.0 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 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  $T_A = 25^\circ\text{C}$  除非另有规定。

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

	Symbols	US2AA	US2BA	US2DA	US2GA	US2JA	US2KA	US2MA	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	$I_{F(AV)}$	2.0							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	$I_{FSM}$	50							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	$R_{\theta JA}$	55							°C/W
工作结温和存储温度 Operating junction and storage temperature range	$T_J, T_{STG}$	-50---+150							°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.

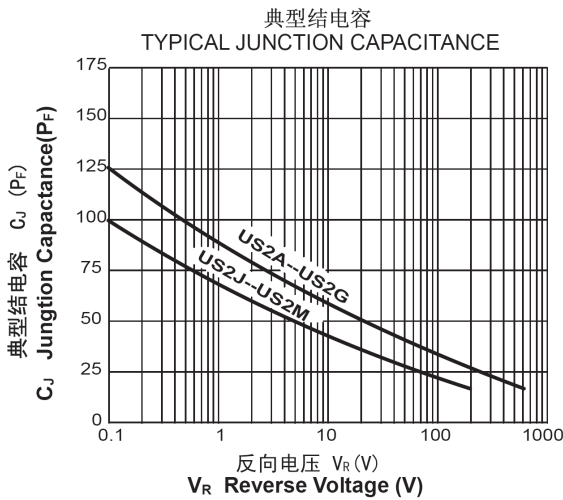
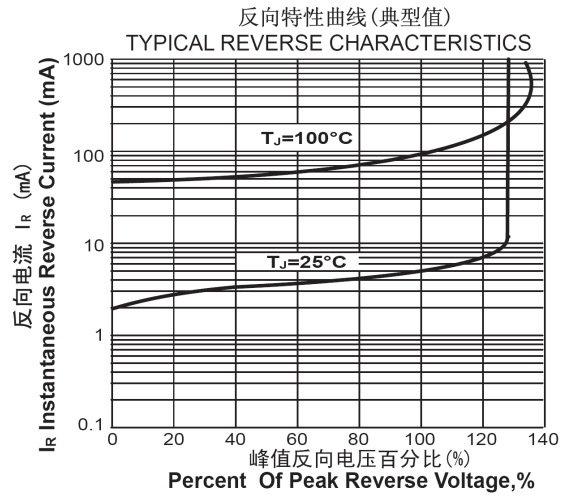
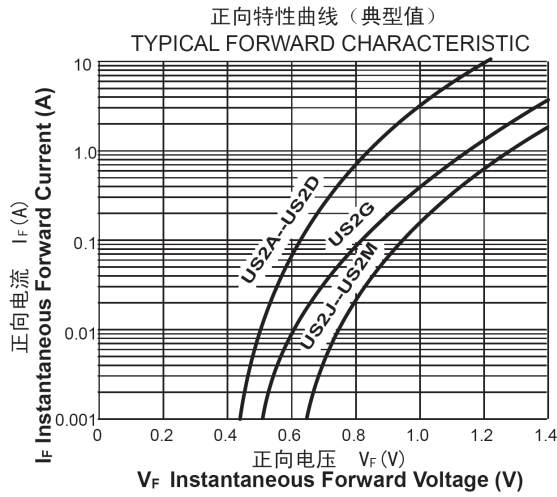
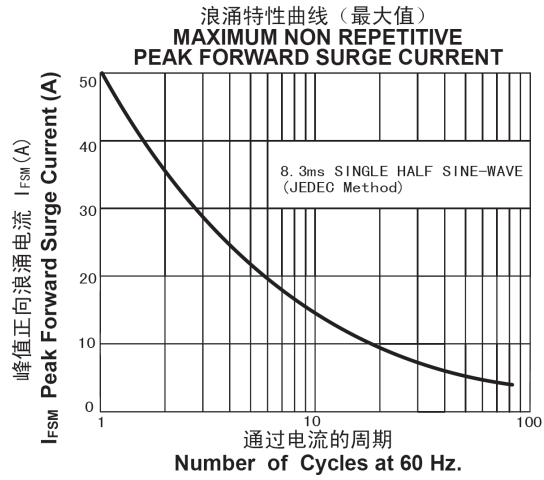
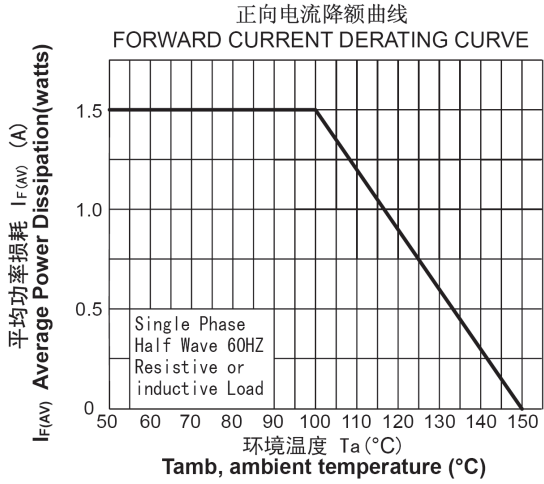
	Symbols	US2AA	US2BA	US2DA	US2GA	US2JA	US2KA	US2MA	Unit
最大正向电压 $I_F = 2.0A$ Maximum forward voltage	$V_F$	1.0			1.3	1.7			V
最大反向漏电流 $T_A = 25^\circ\text{C}$ Maximum reverse current	$I_R$	5.0							uA
最大反向恢复时间 $I_F = 0.5A$ $I_R = 1.0A$ $I_{RR} = 0.25A$ MAX. Reverse Recovery Time	$t_{rr}$	50				75			nS
典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance	$C_J$	30							pF



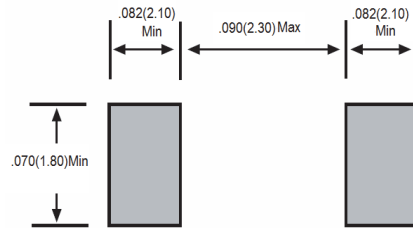
SHANGSI

# US2AA thru US2MA

## 特性曲线 Characteristic Curves



## Mounting Pad Layout



## Packing

Part number	Component Package	Quantity	Packaging Option
US2AA-US2MA	DO-214AC	5000	Tape & Reel – 12mm/13" tape

## Tape and Reel Specification

