

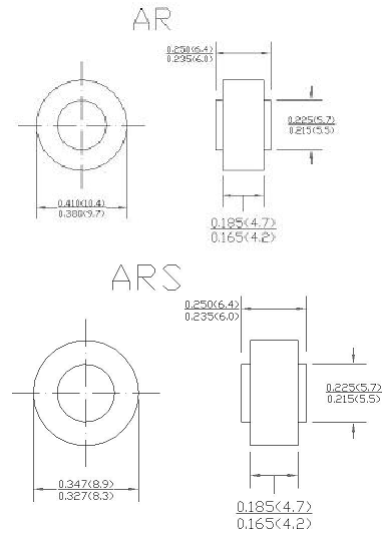
### 特征 FEATURES

- .高浪涌承受能力. High surge capability
- .低成本.Low cost
- .扩散烧结. Diffused junction
- .低漏电.Low leakage
- .大电流承受能力. High current capability
- . 高温焊接保证: 250°C/10 秒.

High temperature soldering guaranteed:  
250°C for 10 seconds

### 机械数据 MECHANICAL DATA

- .封装:模塑 AR/ARS 封装.Case: AR/ARS molded plastic
- .端子:镀锡端子, 可焊接性符合 MIL-STD-750,方法 2026.
- Terminals: Solder plated, solderable per MIL-STD-750 Method 2026
- .极性:用阴极色带表示. Polarity : indicated by cathode band
- .安装位置: 任意.Mounting Position: Any
- .重量: 1.8 克. Weight: 1.8 grams (0.07ounce)



Dimension in inches (millimeters)

**极限值和电参数** TA= 25°C除非另有规定. 单相,正半弦波,60HZ,阻抗或电感负载.为电容装载,减少电流的 20%

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C Ambient temp. Unless otherwise specified. Single phase, half sine wave, 60HZ,resistive or inductive load.  
For capacitive load, derate current by 20%

|  | SYMBOL                           | AR/ARS       |     |     |     |     |     |      | UNITS |
|--|----------------------------------|--------------|-----|-----|-----|-----|-----|------|-------|
|  |                                  | 2505         | 251 | 252 | 254 | 256 | 258 | 2510 |       |
| 最大峰值反向电压<br>Maximum current Peak Reverse Voltage   | VRRM                             | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| 最大反向有效电流<br>Maximum RMS Voltage  | VRMS                             | 35           | 70  | 140 | 280 | 420 | 560 | 700  | Volts |
| 最大直流阻断电压<br>Maximum DC Blocking Voltage  | VDC                              | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| 最大正向平均整流电流 T <sub>r</sub> =125°C<br>Maximum Average Forward Rectified Current  | I(AV)                            | 25           |     |     |     |     |     |      | Amps  |
| 正向峰值浪涌电流<br>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)       | IFSM                             | 300          |     |     |     |     |     |      | Amps  |
| 35A 直流电时最大正向瞬间电压降<br>Maximum Instantaneous Forward Voltage @ 25A   | VF                               | 1.0          |     |     |     |     |     |      | Volts |
| 最大反向漏电流<br>Maximum DC Reverse Current @ T <sub>A</sub> =25°C<br>at Rated DC Blocking Voltage @ T <sub>A</sub> =125°C | IR                               | 5.0<br>200.0 |     |     |     |     |     |      | uA    |
| 典型结电容<br>Typical Junction Capacitance  | C <sub>J</sub>                   | 300          |     |     |     |     |     |      | pF    |
| 典型热阻<br>Typical Thermal Resistance   | R <sub>θJA</sub>                 | 1.0          |     |     |     |     |     |      | °C/W  |
| 工作温度存储温度<br>Operating AND Storage Temperature Range  | T <sub>J</sub> /T <sub>STG</sub> | -55 to +150  |     |     |     |     |     |      | °C    |

**RATING AND CHARACTERISTIC CURVES AR/ARS 2505THRU 2510**

FIG. 1 – 输出电流曲线

FIG. 1 – DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

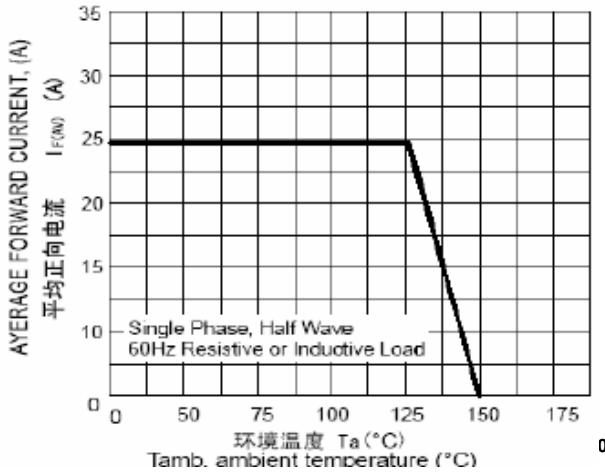


FIG. 2 – 浪涌特性曲线

FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

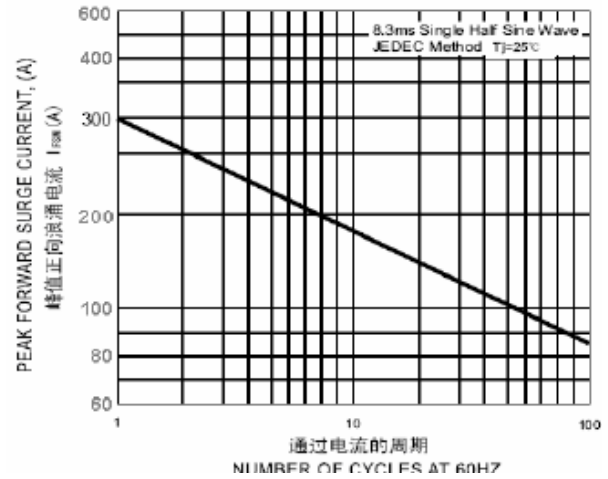


FIG. 3 – 瞬间正向特性曲线

FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

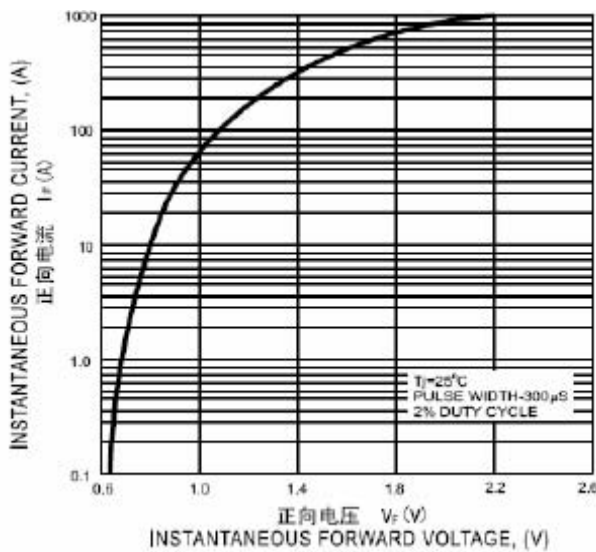


FIG. 4 – 反向特征曲线

FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

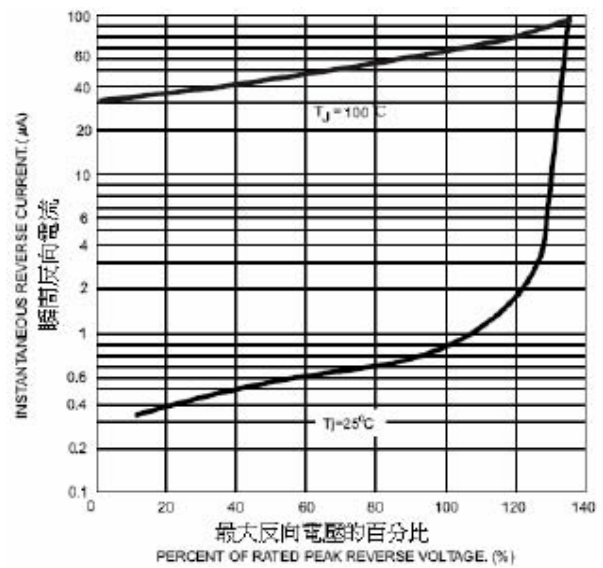


FIG. 5 – 典型结电容

FIG. 5 – TYPICAL JUNCTION CAPACITANCE

