

自主封測 品質把控 售後保障

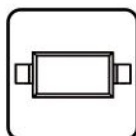
WEB | [WWW.TDSEMIC.COM](http://WWW.TDSEMIC.COM)



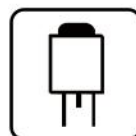
電源管理



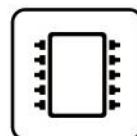
顯示驅動



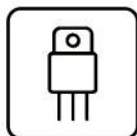
二三極管



LDO穩壓器



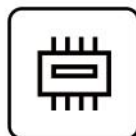
觸摸芯片



MOS管



運算放大器



存儲芯片



MCU

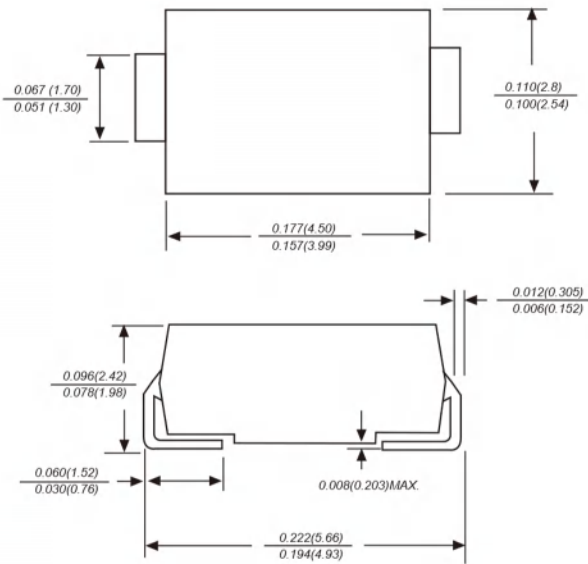


串口通信

# SS26

產品規格說明書

### SMA/DO-214AC



Dimensions in inches and (millimeters)

### FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals

### MECHANICAL DATA

**Case:** JEDEC DO-214AC molded plastic body  
**Terminals:** leads solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight:** 0.002 ounce, 0.07 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

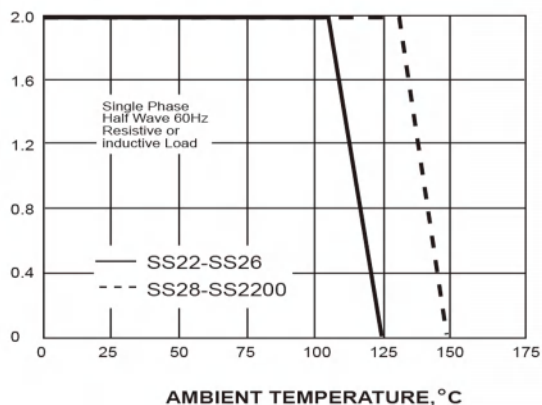
Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

|                                                                                                                 | SYMBOLS           | SS22        | SS23 | SS24 | SS25 | SS26 | SS28        | SS210 | SS2150 | SS2200 | UNITS |
|-----------------------------------------------------------------------------------------------------------------|-------------------|-------------|------|------|------|------|-------------|-------|--------|--------|-------|
| Maximum repetitive peak reverse voltage                                                                         | V <sub>RRM</sub>  | 20          | 30   | 40   | 50   | 60   | 80          | 100   | 150    | 200    | VOLTS |
| Maximum RMS voltage                                                                                             | V <sub>RMS</sub>  | 14          | 21   | 28   | 35   | 42   | 56          | 70    | 105    | 140    | VOLTS |
| Maximum DC blocking voltage                                                                                     | V <sub>DC</sub>   | 20          | 30   | 40   | 50   | 60   | 80          | 100   | 150    | 200    | VOLTS |
| Maximum average forward rectified current at T <sub>L</sub> (see fig.1)                                         | I <sub>(AV)</sub> | 2.0         |      |      |      |      |             |       |        |        | Amps  |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on rated load (JEDEC Method)             | I <sub>FSM</sub>  | 50.0        |      |      |      |      |             |       |        |        | Amps  |
| Maximum instantaneous forward voltage at 2.0A                                                                   | V <sub>F</sub>    | 0.55        |      |      | 0.70 |      | 0.85        |       |        | 0.95   | Volts |
| Maximum DC reverse current      T <sub>A</sub> =25°C<br>at rated DC blocking voltage      T <sub>A</sub> =100°C | I <sub>R</sub>    | 0.5         |      |      |      |      |             | 0.2   |        | mA     |       |
|                                                                                                                 |                   | 10.0        |      |      | 5.0  |      | 2.0         |       |        |        |       |
| Typical junction capacitance (NOTE 1)                                                                           | C <sub>J</sub>    | 220         |      |      | 180  |      |             |       |        |        | pF    |
| Typical thermal resistance (NOTE 2)                                                                             | R <sub>θJA</sub>  | 75.0        |      |      |      |      |             |       |        |        | °C/W  |
| Operating junction temperature range                                                                            | T <sub>J</sub>    | -65 to +125 |      |      |      |      | -65 to +150 |       |        |        | °C    |
| Storage temperature range                                                                                       | T <sub>STG</sub>  | -65 to +150 |      |      |      |      |             |       |        |        | °C    |

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

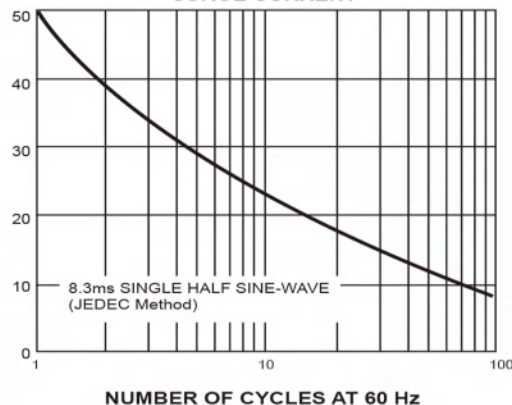
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



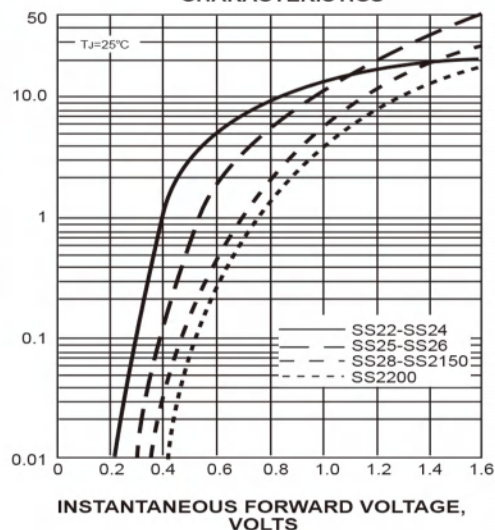
PEAK FORWARD SURGE CURRENT,  
AMPERES

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



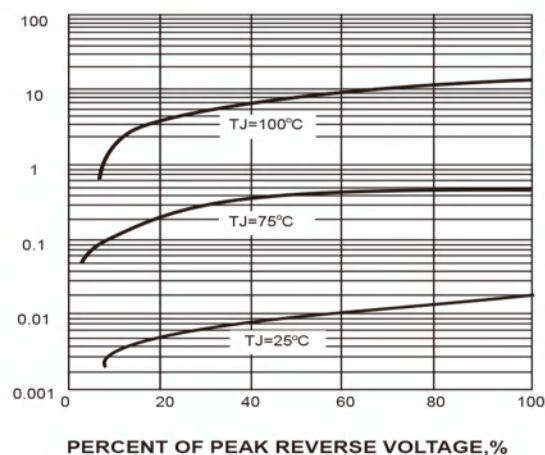
INSTANTANEOUS FORWARD  
CURRENT,AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



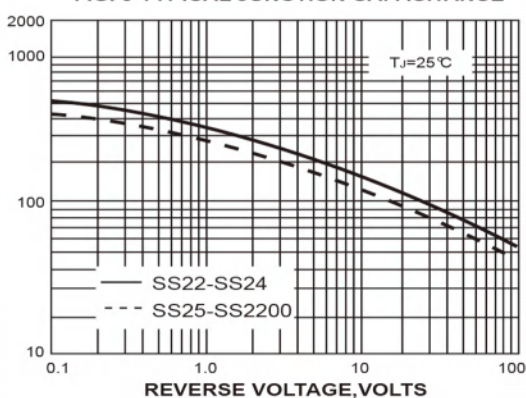
INSTANTANEOUS REVERSE CURRENT,  
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,  
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

