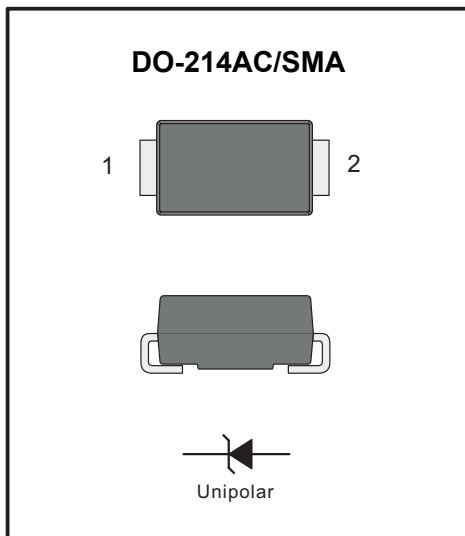


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



### 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: 250 °C/10 seconds at terminals

### Mechanical Data

- ◆ Case : JEDEC DO-214AC/SMA molded plastic body
- ◆ Terminals : 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

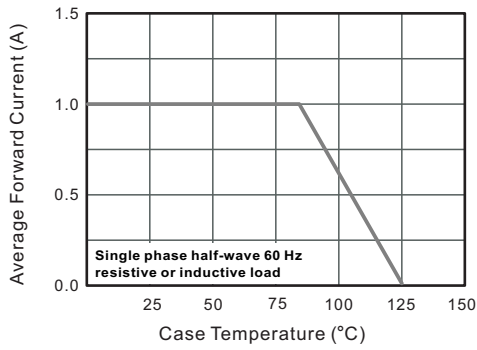
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

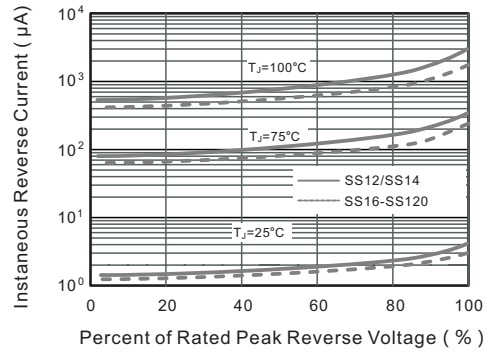
| Parameter  | SYMBOLS         | SS12        | SS13 | SS14 | SS15 | SS16 | SS18        | SS110 | SS1150 | SS1200 | UNITS |    |
|--|-----------------|-------------|------|------|------|------|-------------|-------|--------|--------|-------|----|
| Maximum repetitive peak reverse voltage  | $V_{RRM}$       | 20          | 30   | 40   | 50   | 60   | 80          | 100   | 150    | 200    | V     |    |
| Maximum RMS voltage  | $V_{RMS}$       | 14          | 21   | 28   | 35   | 42   | 56          | 70    | 105    | 140    | V     |    |
| Maximum DC blocking voltage  | $V_{DC}$        | 20          | 30   | 40   | 50   | 60   | 80          | 100   | 150    | 200    | V     |    |
| Maximum average forward rectified current at TL (see fig. 1)                                     | $I_{(AV)}$      | 1.0         |      |      |      |      |             |       |        |        | A     |    |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$       | 30          |      |      |      |      |             |       |        |        | A     |    |
| Maximum instantaneous forward voltage at 1.0A  | $V_F$           | 0.45        | 0.55 | 0.70 |      |      | 0.85        |       | 0.9    | V      |       |    |
| Maximum DC reverse current at rated DC blocking voltage  | $I_R$           | 0.5         |      |      | 0.2  |      |             |       |        |        | mA    |    |
|  |                 | 10.0        |      |      | 5.0  |      | 2.0         |       |        |        |       |    |
| Typical junction capacitance (NOTE 1)  | $C_J$           | 110         |      |      | 90   |      |             |       |        |        | pF    |    |
| Typical thermal resistance (NOTE 2)  | $R_{\theta JA}$ | 88.0        |      |      |      |      |             |       |        |        | °C/W  |    |
| Operating junction temperature range   | $T_J$           | -50 to +125 |      |      |      |      | -50 to +150 |       |        |        |       | °C |
| Storage temperature range  | $T_{STG}$       | -50 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

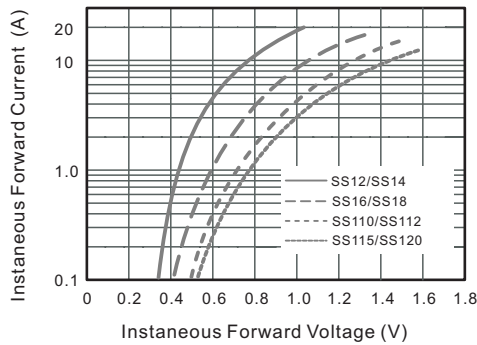
**Fig.1 Forward Current Derating Curve**



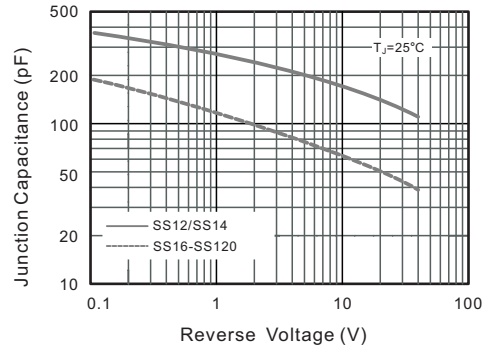
**Fig.2 Typical Reverse Characteristics**



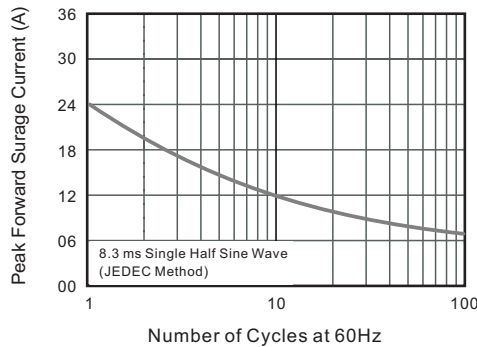
**Fig.3 Typical Forward Characteristic**



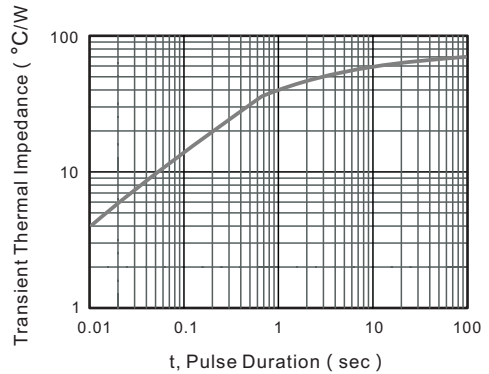
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



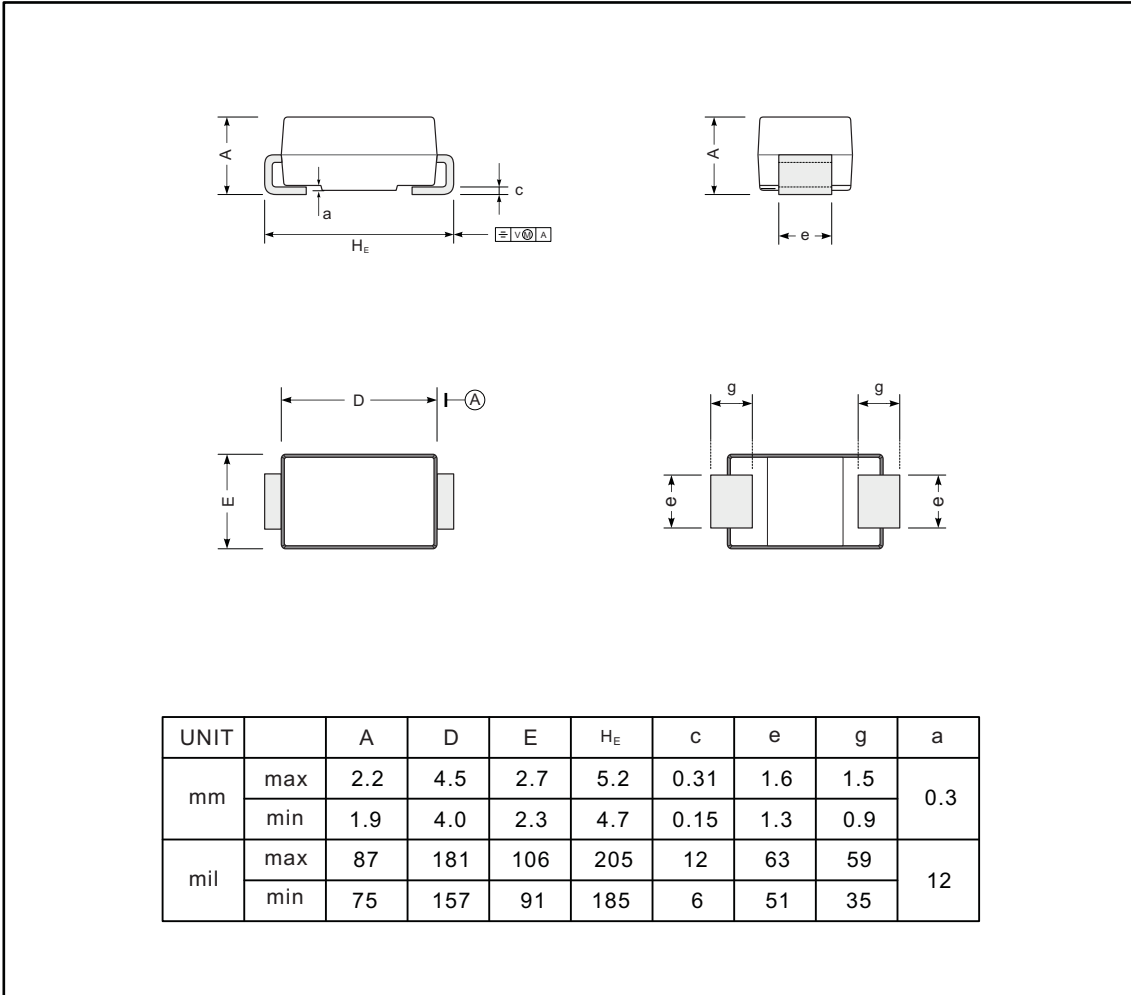
**Fig.6- Typical Transient Thermal Impedance**



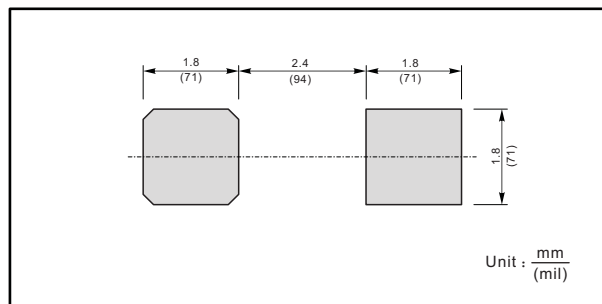
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



### The recommended mounting pad size



单击下面可查看定价，库存，交付和生命周期等信息

[>>TWGMC\(台湾迪嘉\)](#)