

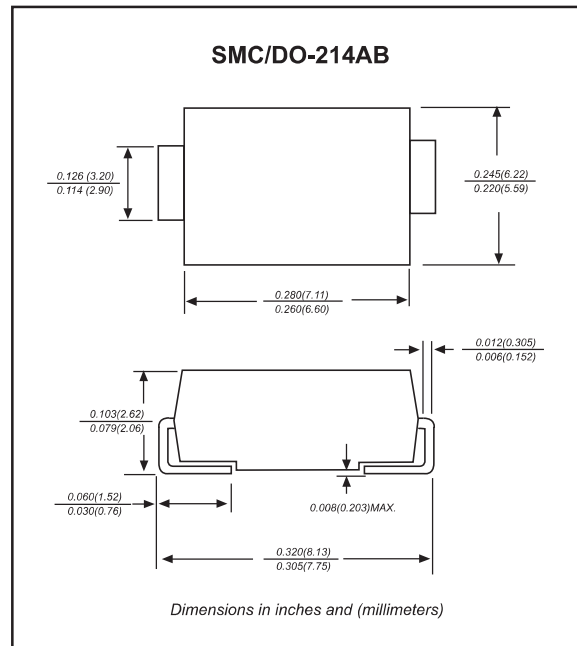
### Features

- ▶ 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
- ▶ Compliant to RoHS Directive 2011/65/EU
- ▶ Suffix "-H" indicates Halogen-free part, ex. SS54-C-H

### Mechanical data

- ▶ **Case:** JEDEC DO-214AB molded plastic body
- ▶ **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- ▶ **Polarity:** Color band denotes cathode end
- ▶ **Mounting Position:** Any

### Package outline



### Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

| PARAMETER                  | CONDITIONS                                    | Symbol          | MIN. | TYP. | MAX. | UNIT                      |
|----------------------------|---|-----------------|------|------|------|---------------------------|
| Forward rectified current  | See Fig.2                                     | $I_O$           |      |      | 5.0  | A                         |
| Forward surge current      | 8.3ms single half sine-wave (JEDEC methode)   | $I_{FSM}$       |      |      | 120  | A                         |
| Reverse current            | $V_R = V_{RRM} \quad T_A = 25^\circ\text{C}$  | $I_R$           |      |      | 0.5  | mA                        |
|                            | $V_R = V_{RRM} \quad T_A = 100^\circ\text{C}$ |                 |      |      | 10   |                           |
| Thermal resistance         | Junction to ambient<br>NOTE 1                 | $R_{\theta JA}$ |      | 50   |      | $^\circ\text{C}/\text{W}$ |
| Diode junction capacitance | f=1MHz and applied 4V DC reverse voltage      | $C_J$           |      | 200  |      | pF                        |
| Storage temperature        |   | $T_{STG}$       | -65  |      | +150 | $^\circ\text{C}$          |

**Note:** 1.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

| SYMBOLS | $V_{RM}^{*1}$<br>(V) | $V_{RMS}^{*2}$<br>(V) | $V_R^{*3}$<br>(V) | $V_F^{*4}$<br>(V) | Operating temperature<br>$T_J$ , ( $^\circ\text{C}$ ) |
|---------|----------------------|-----------------------|-------------------|-------------------|---|
| SS52-C  | 20                   | 14                    | 20                | 0.55              | -55 to +125   |
| SS53-C  | 30                   | 21                    | 30                |                   |   |
| SS54-C  | 40                   | 28                    | 40                |                   |   |
| SS55-C  | 50                   | 35                    | 50                | 0.70              | -55 to +150   |
| SS56-C  | 60                   | 42                    | 60                |                   |   |
| SS58-C  | 80                   | 56                    | 80                | 0.85              |   |
| SS510-C | 100                  | 70                    | 100               |                   |   |
| SS515-C | 150                  | 105                   | 150               | 0.92              |   |
| SS520-C | 200                  | 140                   | 200               |                   |   |

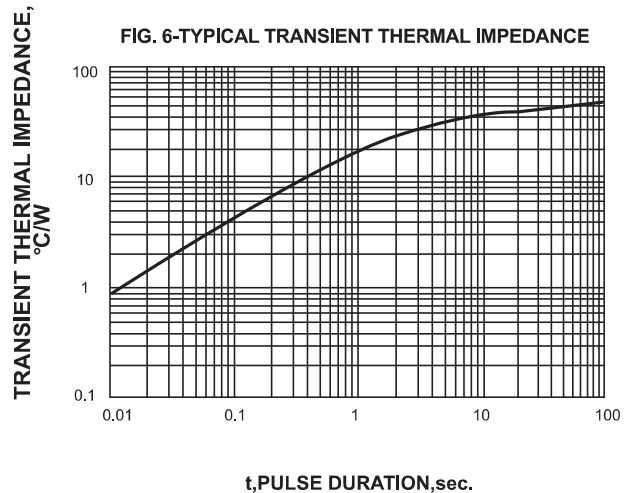
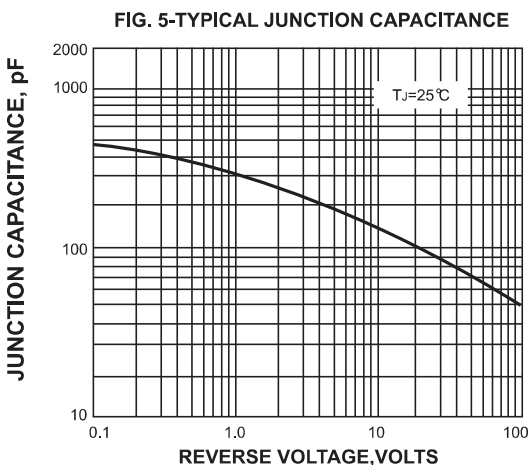
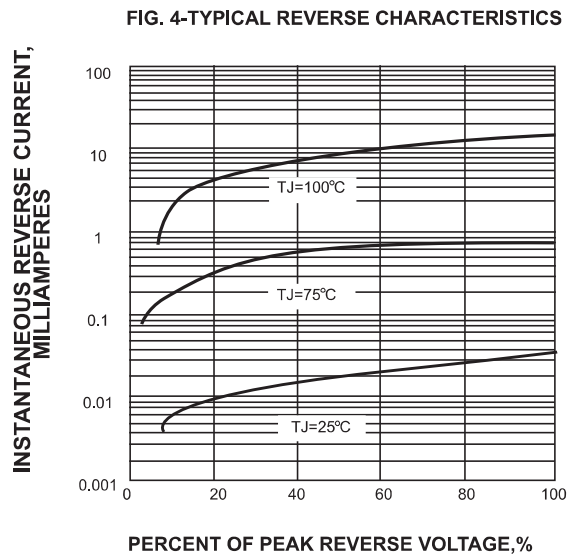
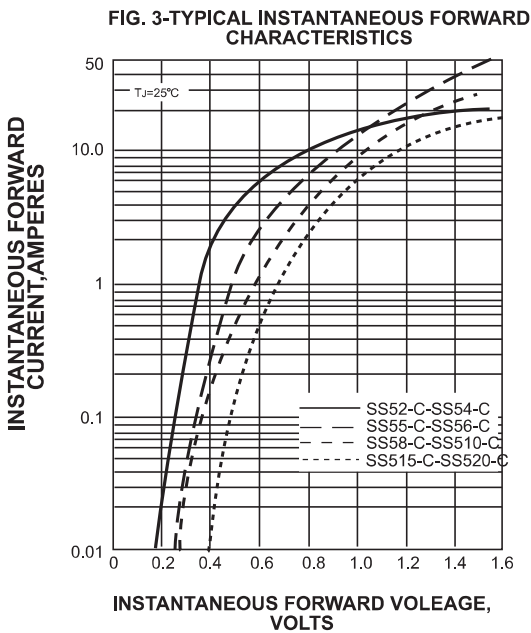
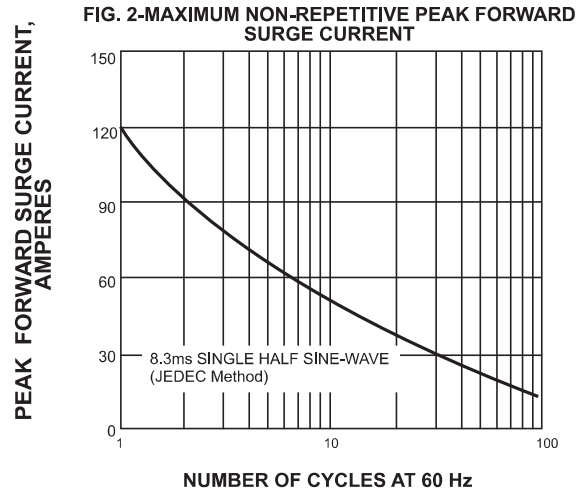
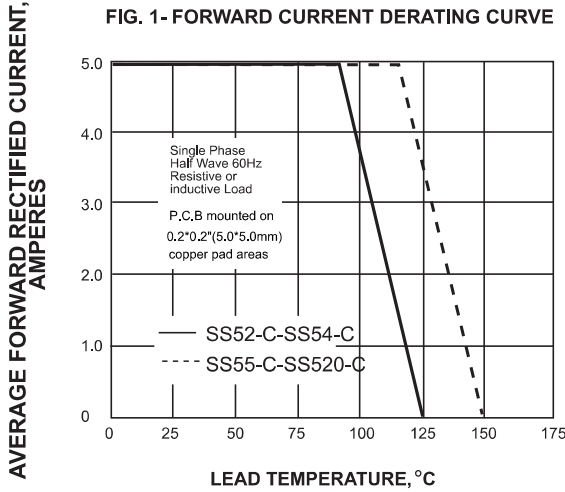
\*1 Repetitive peak reverse voltage

\*2 RMS voltage



\*3 Continuous reverse voltage

\*4 Maximum forward voltage@ $I_F=5.0\text{A}$

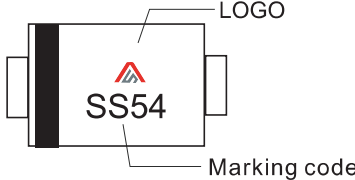
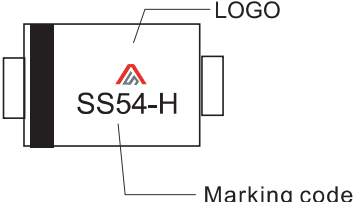
### Rating and characteristic curves



### Pinning information

| Pin                        | Simplified outline   | Symbol  |
|----------------------------|--|---|
| Pin1 cathode<br>Pin2 anode |  |  |

### Marking

| Type number | Marking code | Example  |  |
|-------------|--------------|--|--|
| SS52-C      | SS52         | 1. For Halogen Device<br> | 2. For Halogen-free Device<br>"H" indicate Halogen-Free.<br> |
| SS53-C      | SS53         |  |  |
| SS54-C      | SS54         |  |  |
| SS55-C      | SS55         |  |  |
| SS56-C      | SS56         |  |  |
| SS58-C      | SS58         |  |  |
| SS510-C     | SS510        |  |  |
| SS515-C     | SS515        |  |  |
| SS520-C     | SS520        |  |  |

### Suggested solder pad layout



Dimensions in inches and (millimeters)

| PACKAGE | A            | B            | C           |
|---------|--------------|--------------|-------------|
| SMC     | 0.132 (3.30) | 0.100 (2.50) | 0.176(4.40) |

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