

**/ Descriptions**

TO-252          SiC

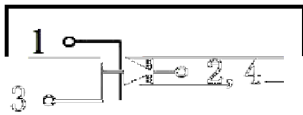
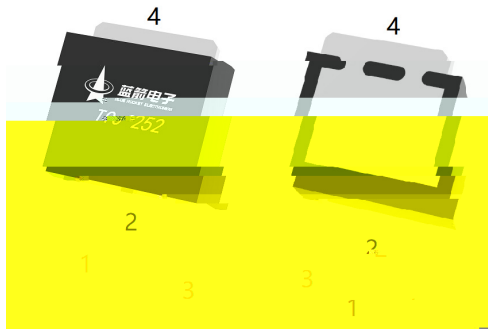
SiC Schottky Barrier Diode in a TO-252 Plastic Package.

**/ Features**

Low power loss, high efficiency, HF Product.

**/ Applications**

For high frequency, high voltage, high current rectifier diode, freewheeling diode

**/ Equivalent Circuit****/ Pinning**

PIN1 3 Anode      PIN 2 4 Cathode

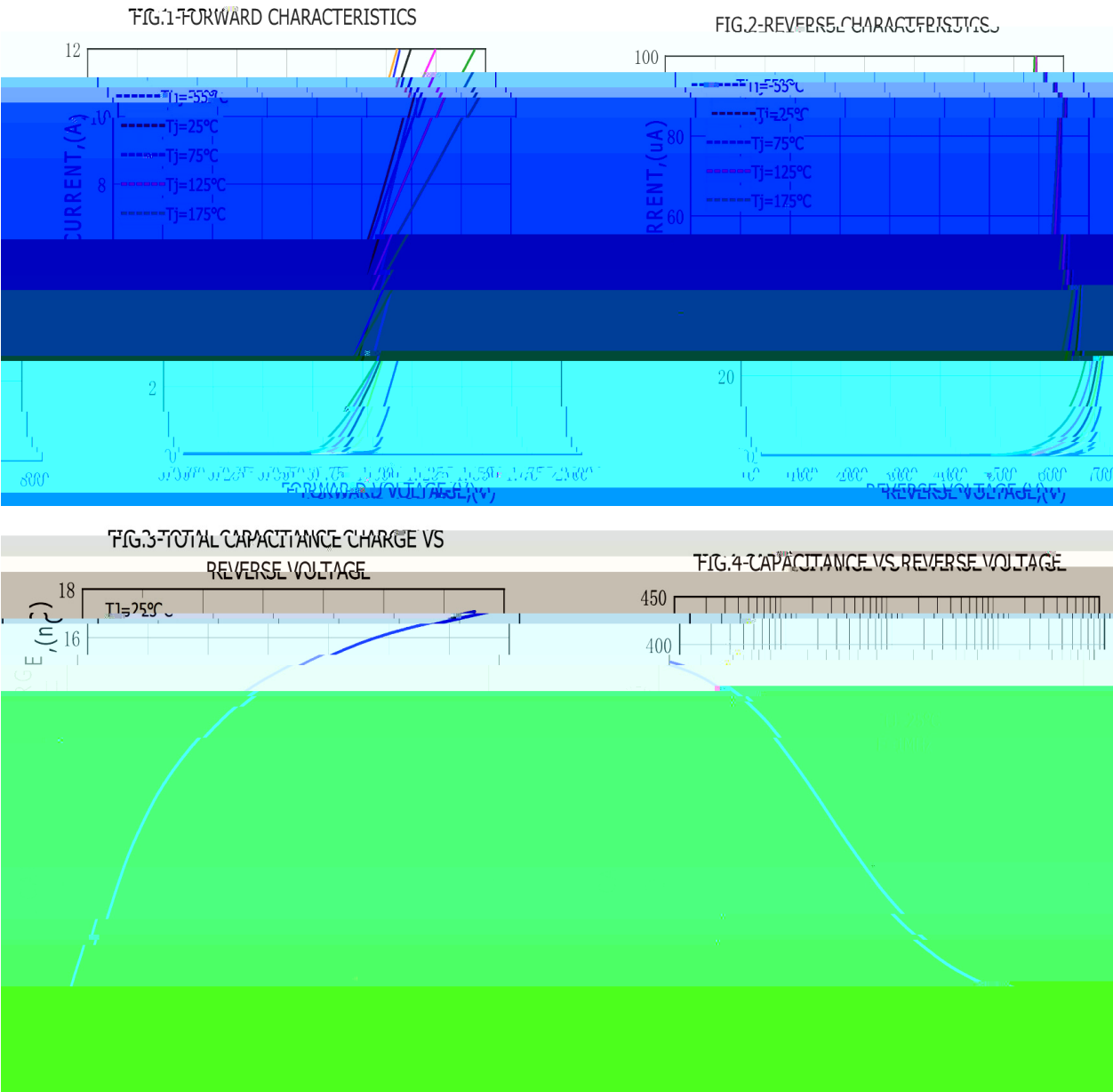
**/ Marking**

See Marking Instructions.

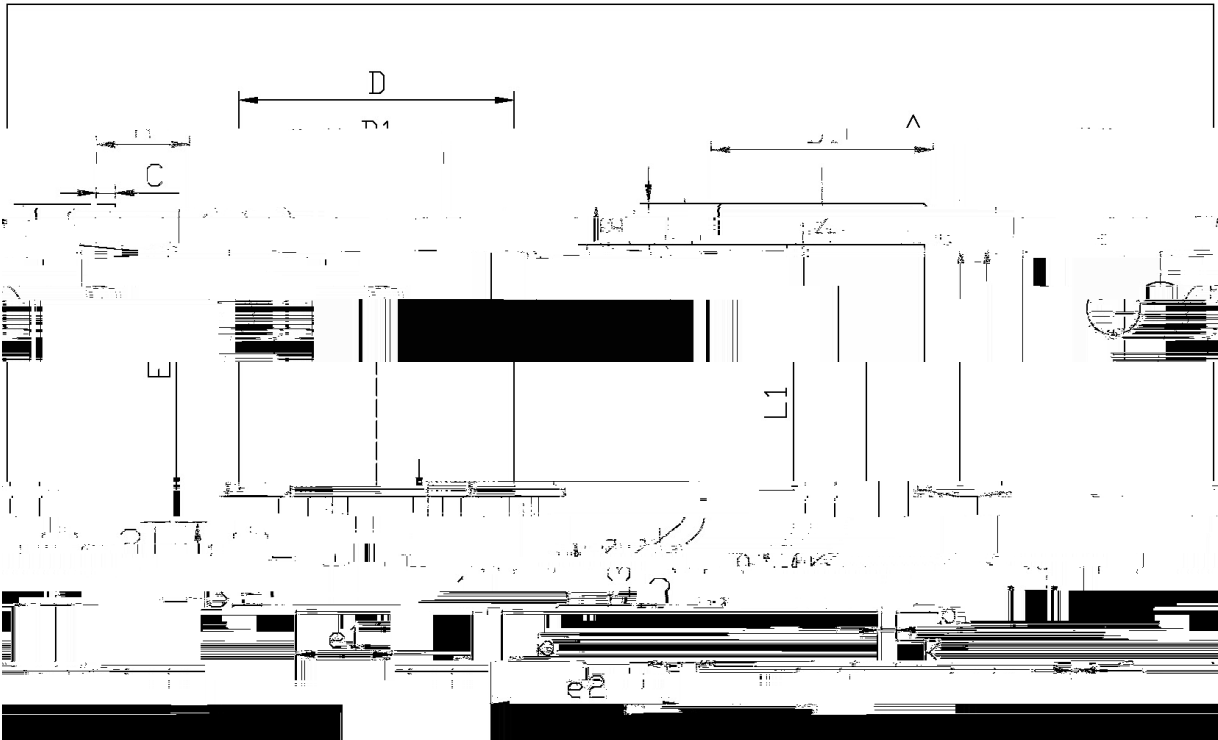
| Parameter                                              | Symbol          | Rating   | Unit |
|--------------------------------------------------------|-----------------|----------|------|
| Peak Repetitive Reverse Voltage                        | $V_{RRM}$       | 650      | V    |
| Maximum RMS Voltage                                    | $V_{RMS}$       | 455      | V    |
| Maximum DC blocking Voltage                            | $V_{DC}$        | 650      | V    |
| Continuous Forward Current, $T_C=150$                  | $I_F$           | 6        | A    |
| Peak forward surge current, $t_p=8.3ms$                | $I_{FSM}$       | 52       | A    |
| Total power dissipation                                | $P_D$           | 53       | W    |
| Typical Thermal Resistance Junction to Case            | $R_{\theta JC}$ | 2.8      | /W   |
| Operation Junction Temperature and Storage Temperature | $T_J, T_{STG}$  | -55~+175 |      |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------|--------|-----------------|-----|-----|-----|------|
|-----------|--------|-----------------|-----|-----|-----|------|

/ Electrical Characteristic Curve



/ Package Dimensions



单位: mm

| Max  | Symbol | Min  | Max  | Symbol | Min  |
|------|--------|------|------|--------|------|
| 6.25 | A      | 2.30 | 2.40 | E      | 5.95 |
| 0.60 | B      | 0.50 | 0.62 | F      | 0.75 |
| 0.45 | C      | 0.55 | 1.10 | L      | 9.95 |
| 0.50 | D      | 0.50 | 0.50 | L1     | 0.50 |
| 0.60 | D1     | 0.60 | 0.60 |        |      |
| 5.16 | E1     | 5.56 | 5.56 | K      | 0.00 |
| 0.60 | E2     | 0.60 | 0.60 |        |      |

12-252



