

SCHOTTKY BARRIER DIODE

Applications

Low current rectification and high speed switching

Features

Extremely small surface mounting type. (SC-79/SOD523)

Low I_R ($I_R=0.1\text{mA Typ.}$)

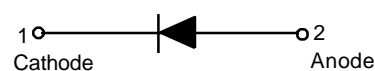
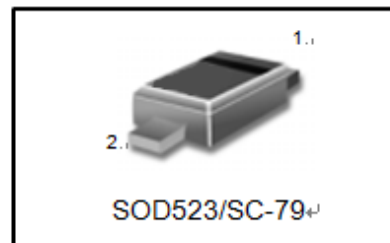
High reliability.

Pb-Free package is available.

Construction

Silicon epitaxial planar

MEK02-04-D5-G



DEVICE MARKING AND ORDERING INFORMATION

| Device | Marking | Shipping |
|---------------|---------|----------------|
| MEK02-04-D5-G | B | 3000/Tape&Reel |

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

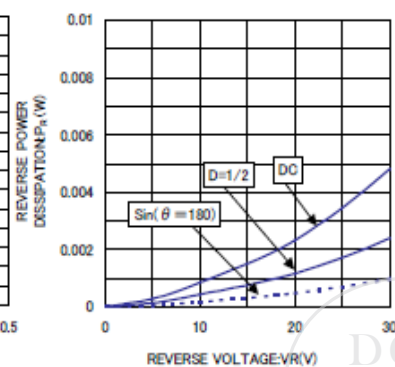
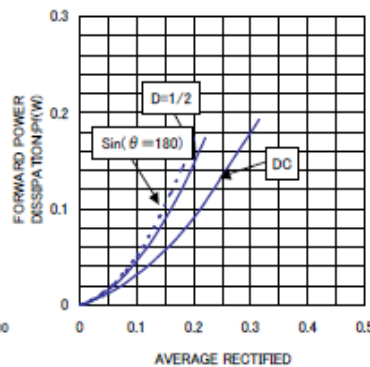
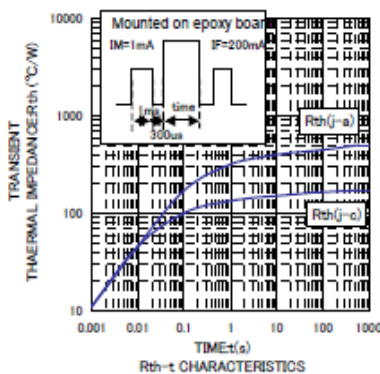
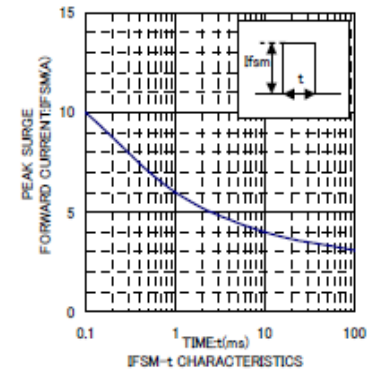
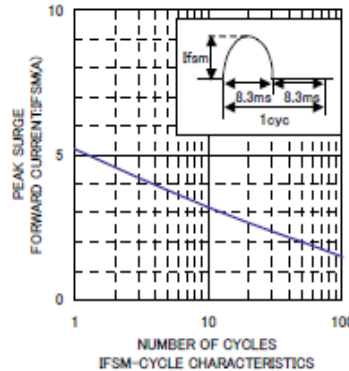
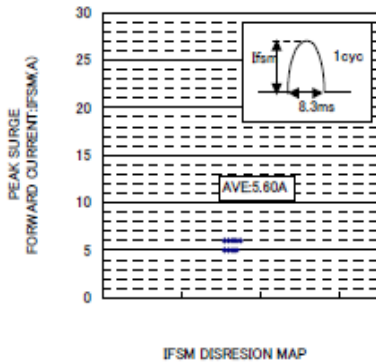
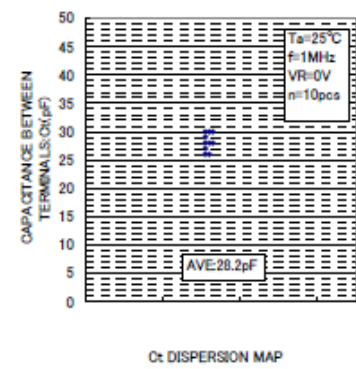
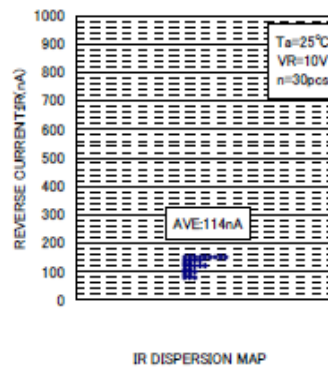
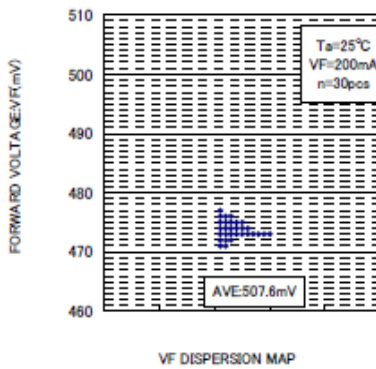
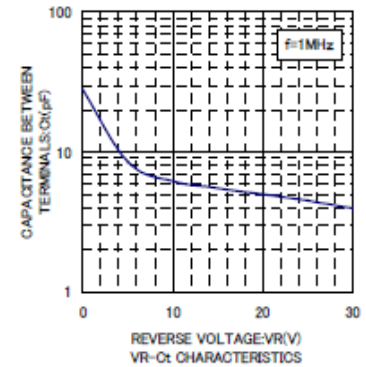
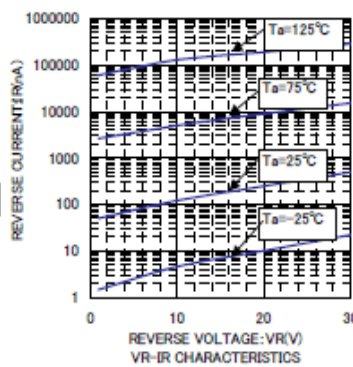
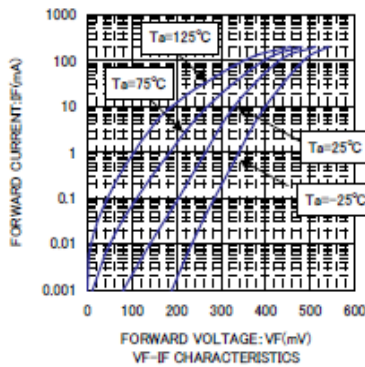
| Parameter | Symbol | Limits | Unit |
|----------------------------|-----------|----------|------------------|
| DC reverse voltage | V_R | 40 | V |
| Mean rectifying current | I_o | 200 | mA |
| Peak forward surge current | I_{FSM} | 1 | A |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -40~+125 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

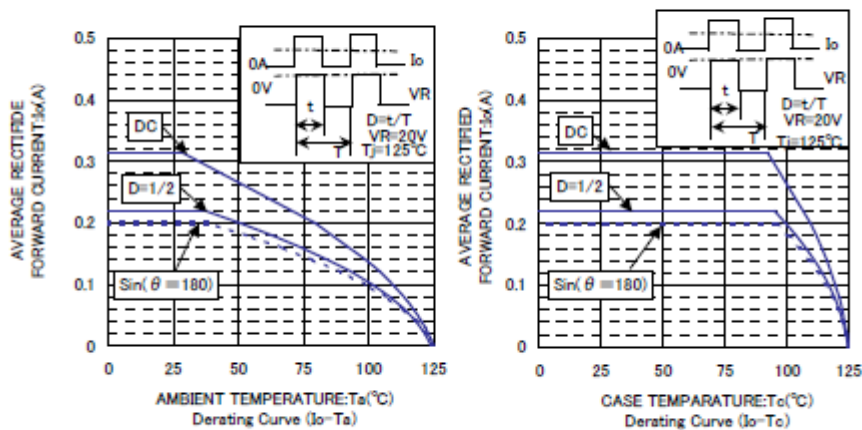
| Parameter | Symbol | Min. | Typ | Max. | Unit | Conditions |
|-----------------|--------|------|-----|------|---------------|-------------------|
| Forward voltage | V_F | - | - | 0.39 | V | $I_F=10\text{mA}$ |
| Reverse current | I_R | - | - | 1.0 | μA | $V_R=10\text{V}$ |



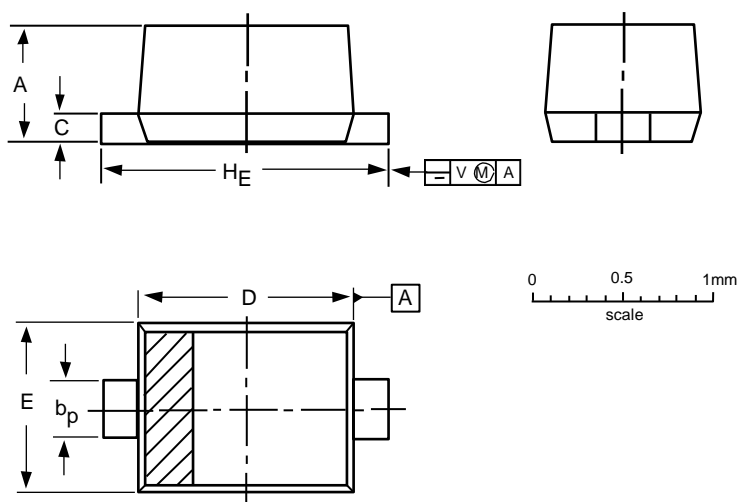
●Electrical characteristic curves



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SC-79/SOD-523



DIMENSIONS (mm are the original dimensions)

| UNIT | A | b _p | c | D | E | H _E | V |
|------|-----|----------------|-----|-----|-----|----------------|------|
| mm | 0.7 | 0.35 | 0.2 | 1.3 | 0.9 | 1.7 | 0.15 |
| | 0.5 | 0.25 | 0.1 | 1.1 | 0.7 | 1.5 | |

Note

1. The marking bar indicates the cathode.

| OUTLINE VERSION | REFERENCES | | | EUROPEAN PROJECTION | ISSUE DATE |
|--------------------|------------|-------|-------|------------------------|------------|
| | IEC | JEDEC | EIAJ | | |
| SOD523 | | | SC-79 | | 98-11-25 |



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