

SCHOTTKY BARRIER DIODE

●Applications

Low current rectification

●Features

Extremely small surface mounting type. (SOD923)

Low I_R .

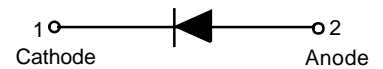
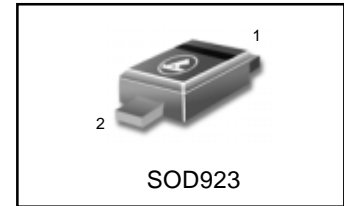
High reliability.

We declare that the material of product compliance with RoHS requirements.

●Construction

Silicon epitaxial planar

RSCD100G



Device Marking And Ordering Information

| Device | Marking | Shipping |
|----------|---------|----------------|
| RSCD100G | E | 8000/Tape&Reel |

Maximum Ratings ($T_A = 25^\circ\text{C}$)

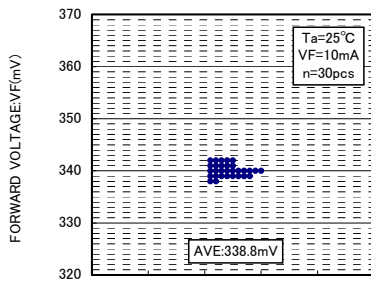
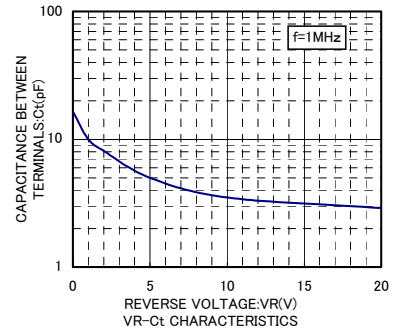
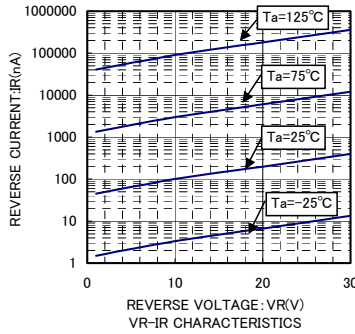
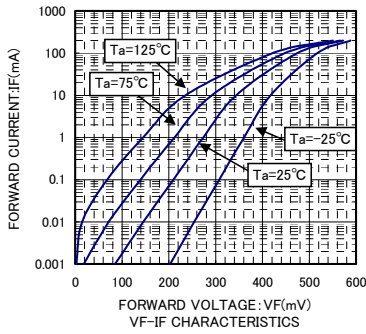
| Parameter | Symbol | Limits | Unit |
|----------------------------|-----------|----------|------------------|
| DC reverse voltage | V_R | 30 | V |
| Mean rectifying current | I_o | 100 | mA |
| Peak forward surge current | I_{FSM} | 500 | mA |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -40~+125 | $^\circ\text{C}$ |

Electrical Characteristics ($T_A = 25^\circ\text{C}$)

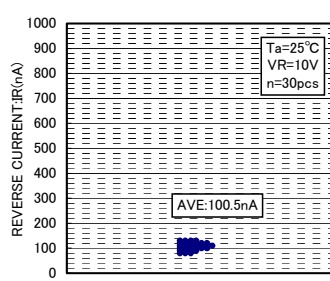
| Parameter | Symbol | Min. | Typ | Max. | Unit | Conditions |
|-----------------|--------|------|-----|------|---------------|---------------------|
| Forward voltage | V_F | - | - | 0.45 | V | $I_F = 10\text{mA}$ |
| Forward voltage | V_F | - | - | 0.50 | V | $I_F = 20\text{mA}$ |
| Reverse current | I_R | - | - | 0.5 | μA | $V_R = 10\text{V}$ |

RSCD100G

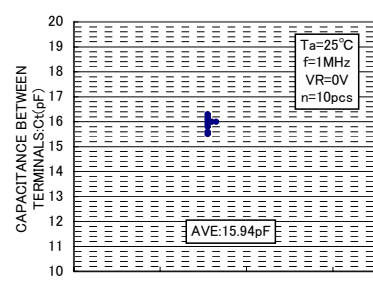
Electrical characteristic curves (Ta=25°C)



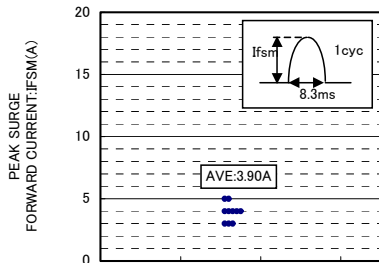
VF DISPERSION MAP



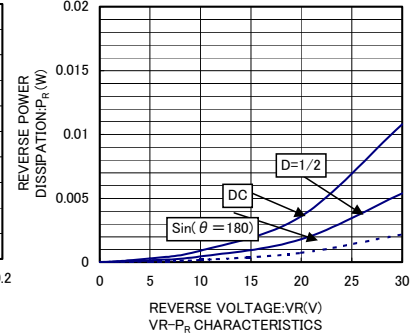
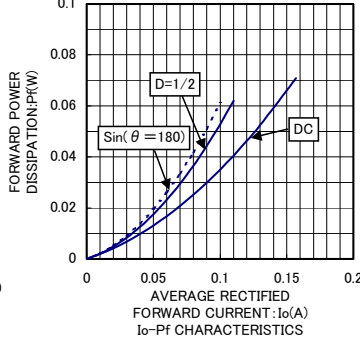
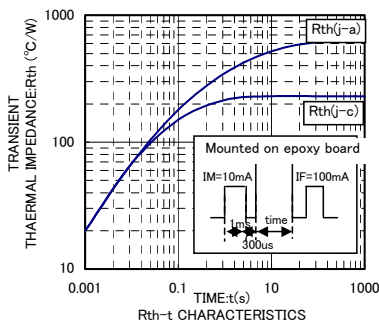
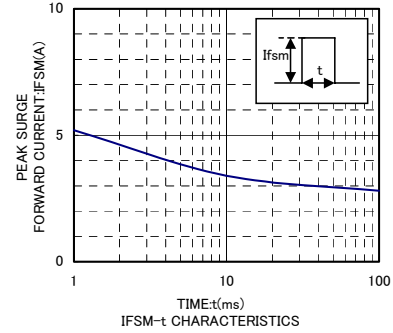
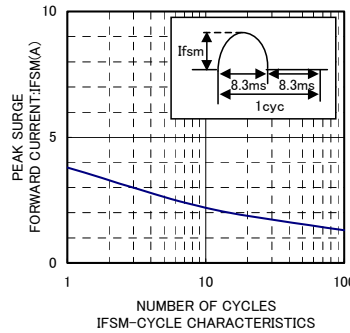
IR DISPERSION MAP



Ct DISPERSION MAP

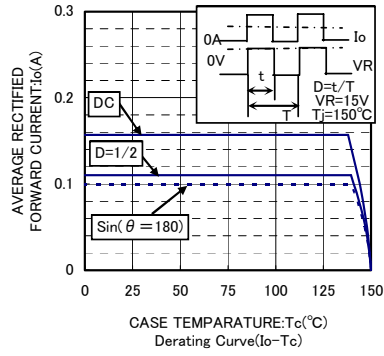
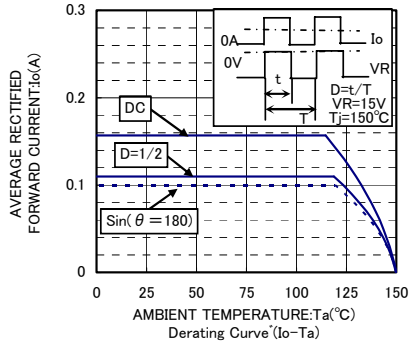


IFSM DISREION MAP



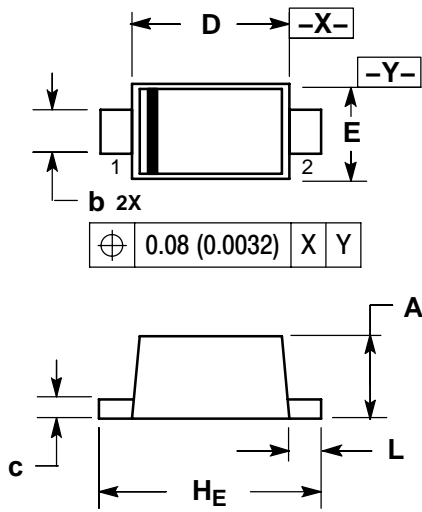
RSCD100G

Electrical characteristic curves ($T_a=25^{\circ}\text{C}$)



RSCD100G

SOD-923



| DIM | MILLIMETERS | | | INCHES | | |
|-----|-------------|------|------|--------|-------|-------|
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.34 | 0.39 | 0.43 | 0.013 | 0.015 | 0.017 |
| b | 0.15 | 0.20 | 0.25 | 0.006 | 0.008 | 0.010 |
| c | 0.07 | 0.12 | 0.17 | 0.003 | 0.005 | 0.007 |
| D | 0.75 | 0.80 | 0.85 | 0.030 | 0.031 | 0.033 |
| E | 0.55 | 0.60 | 0.65 | 0.022 | 0.024 | 0.026 |
| HE | 0.95 | 1.00 | 1.05 | 0.037 | 0.039 | 0.041 |
| L | 0.05 | 0.10 | 0.15 | 0.002 | 0.004 | 0.006 |

SOLDERING FOOTPRINT*

