

RB520S-30

FEATURES

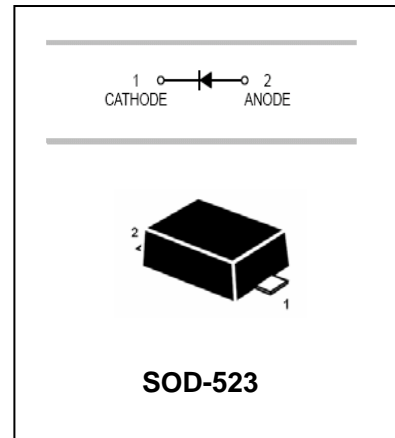
- Low $I_R=0.1\mu A$.
- High reliability.
- Small surface mounting.

APPLICATIONS

- Low current rectification.

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|-----------|---------|--------------|
| RB520S-30 | B | SOD-523 |



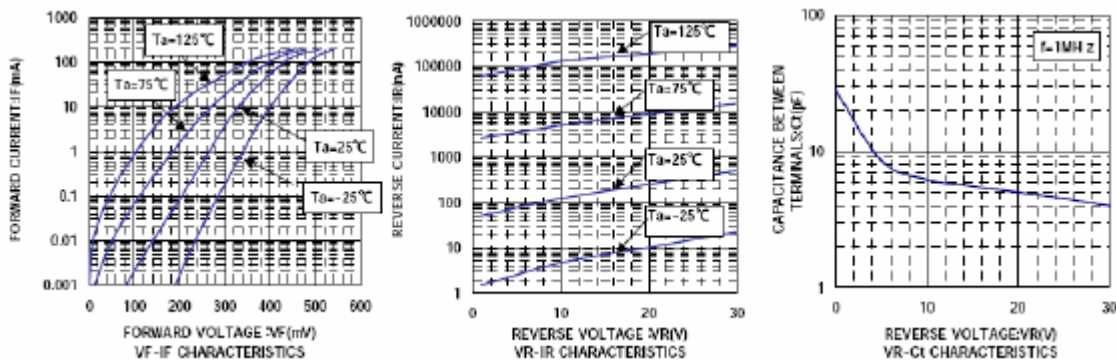
MAXIMUM RATING @ $T_a=25^\circ C$ unless otherwise specified

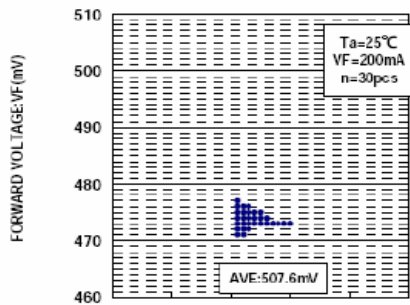
| Parameter | Symbol | Limits | Unit |
|----------------------------|-----------|---------|------------|
| DC reverse voltage | V_R | 40 | V |
| Mean rectifying current | I_O | 200 | mA |
| Peak forward surge current | I_{FSM} | 1 | A |
| Junction temperature | T_j | 125 | $^\circ C$ |
| Storage temperature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

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

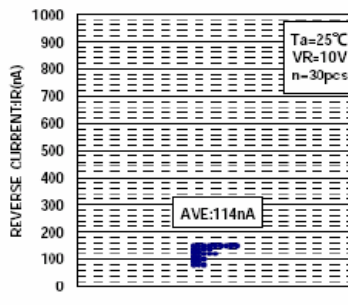
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|---------|-------------|
| Forward voltage | V_F | | | 0.39 | V | $I_F=10mA$ |
| | | | | 0.55 | V | $I_F=100mA$ |
| Reverse current | I_R | | | 1 | μA | $V_R=10V$ |

TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

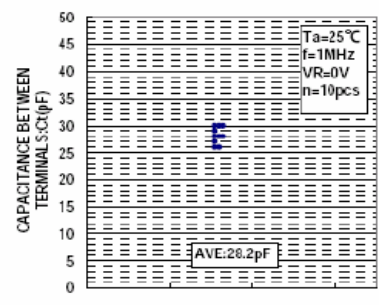




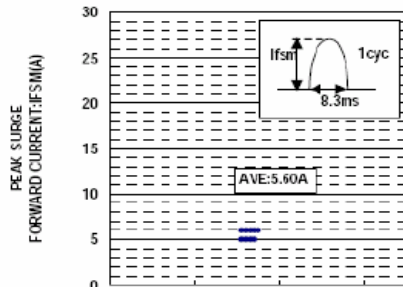
VF DISPERSION MAP



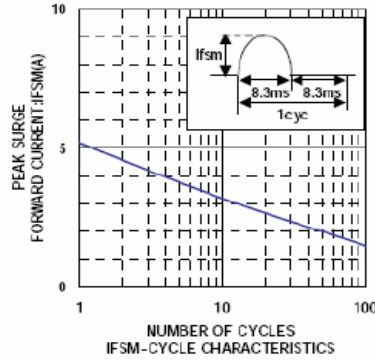
IR DISPERSION MAP



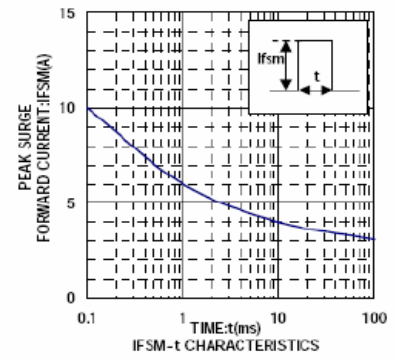
Ct DISPERSION MAP



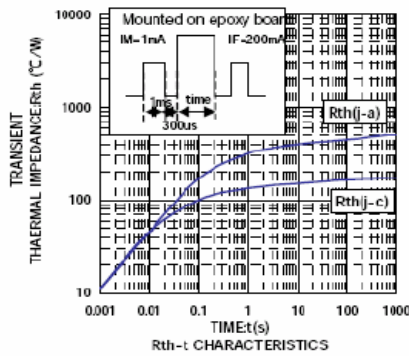
IFSM DISERSION MAP



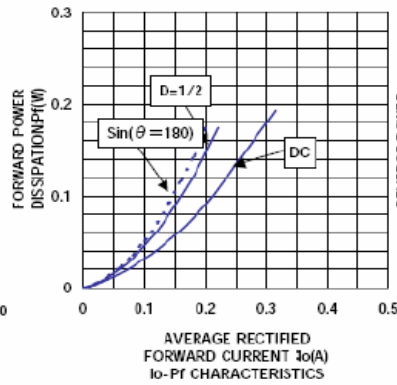
IFSM-CYCLE CHARACTERISTICS



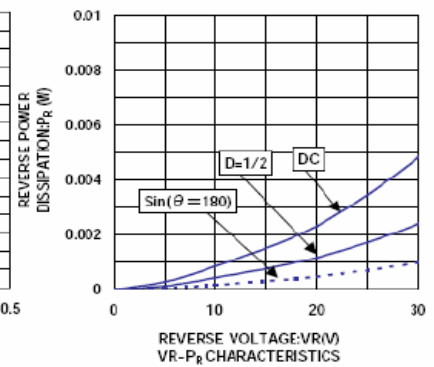
IFSM-t CHARACTERISTICS



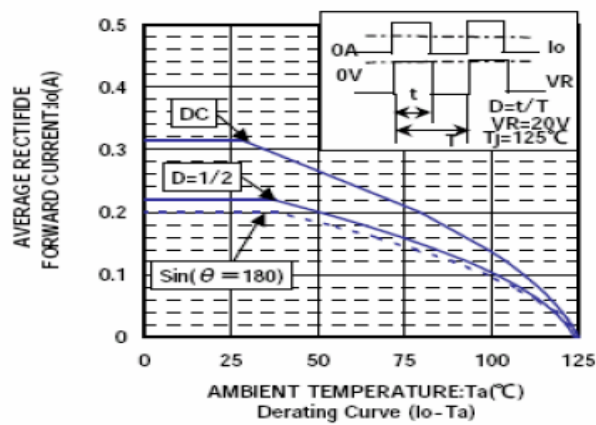
Rth-t CHARACTERISTICS



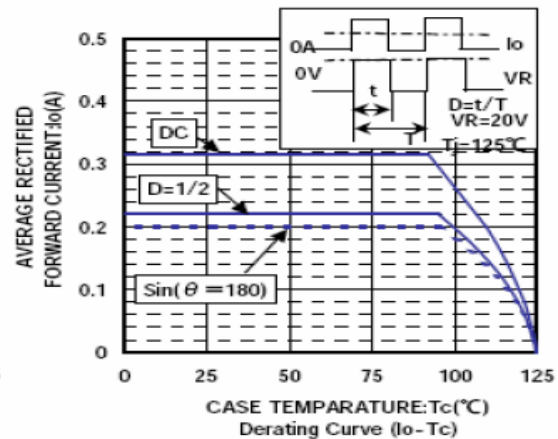
AVERAGE RECTIFIED FORWARD CURRENT I_o (A)
 I_o - P_f CHARACTERISTICS



REVERSE VOLTAGE- $V_{R(M)}$
 V_R - P_r CHARACTERISTICS



AMBIENT TEMPERATURE: T_a (°C)
Derating Curve (I_o - T_a)

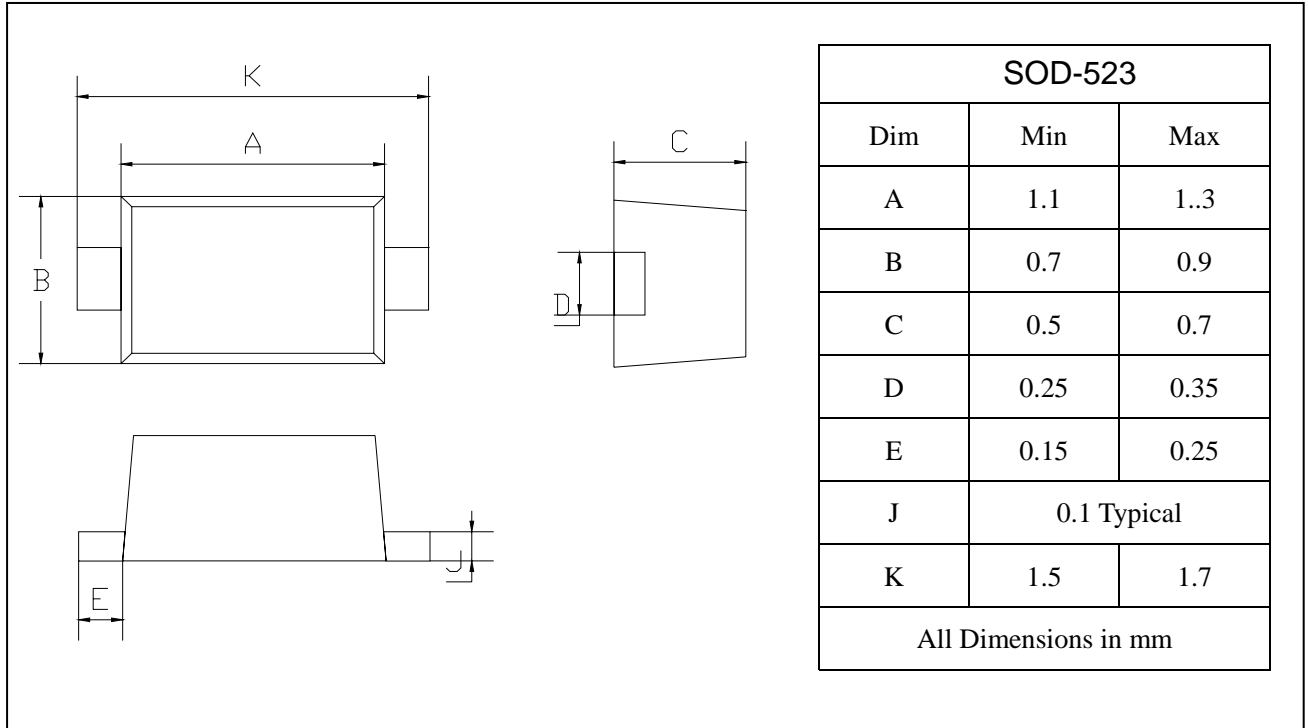


CASE TEMPERATURE: T_c (°C)
Derating Curve (I_o - T_c)

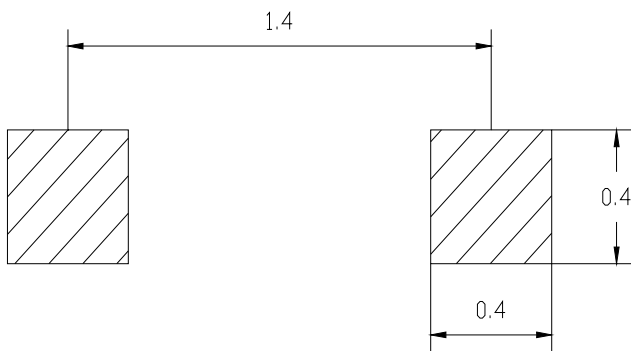
PACKAGE OUTLINE

Plastic surface mounted package

SOD-523



SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

| Device | Package | Shipping |
|-----------|---------|----------------|
| RB520S-30 | SOD-523 | 3000/Tape&Reel |

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