

SURFACE MOUNT SCHOTTKY BARRIER DIODE

REVERSE VOLTAGE - 30 Volts FORWARD CURRENT - 0.2 Ampere

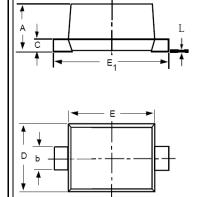
FEATURES

- Low VF drop
- Low Reverse Current

MECHANICAL DATA

- Case: SOD-523 Plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant

SOD-523



| SOD-523 | | | | |
|--------------------------|------|------|--|--|
| Dim. | Min. | Max. | | |
| Α | 0.51 | 0.77 | | |
| b | 0.25 | 0.35 | | |
| С | 0.08 | 0.15 | | |
| D | 0.75 | 0.85 | | |
| E | 1.10 | 1.30 | | |
| E1 | 1.50 | 1.70 | | |
| L | 0.01 | 0.07 | | |
| Dimensions in millimeter | | | | |

Maximum Ratings & Thermal Characteristics @ $T_A = 25^{\circ}C$ unless otherwise specified

| Characteristic | Symbol | RB520S-30 | Units |
|---------------------------------------|------------------|-----------|------------------------|
| DC reverse voltage | V _R | 30 | |
| Average Rectified Forward Current | Io | 200 | mA |
| Peak Forward Surge Current @ tp=8.3ms | I _{FSM} | 1000 | mA |
| Operating Temperature Range | TJ | 125 | $^{\circ}\!\mathbb{C}$ |
| Storage Temperature Range | T _{STG} | -40~+125 | °C |

Electrical Characteristics @ T_A = 25°C unless otherwise specified

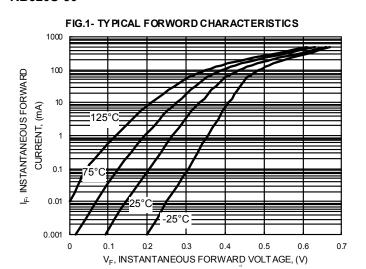
| Characteristic | Test Condition | Symbol | RB520S-30 | Unit |
|---|---------------------------------|----------------|------------|------|
| Maximum Forward Voltage | $I_F = 20$ mA $I_F = 200$ mA | V_{F} | 400 600 | mV |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | V _R = 10V | I _R | 1 | uA |

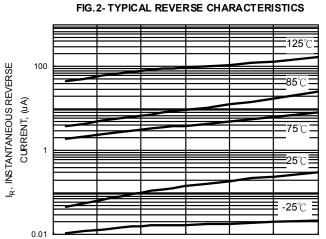
REV.2, Oct-2010, KSHR42

RATING AND CHARACTERISTIC CURVES RB520S-30



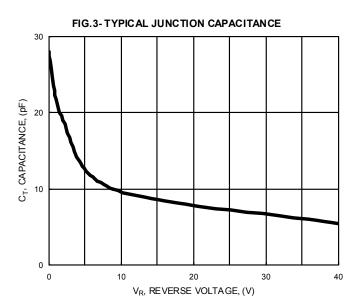
30

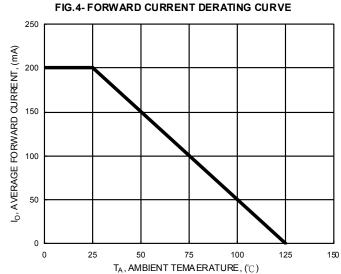




V_R, INSTANTANEOUS REVERSE VOLTAGE, (V)

0





Device Marking:

| Device P/N | Marking | Equivalent Circuit Diagram |
|------------|---------|----------------------------|
| RB520S-30 | В | 1 0 |



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