

Features

Small surface mounting type.

Low reverse current.

High reliability.



Package Marking and Ordering Information

| Pro | duct ID | Pack | Marking | Qty(PCS) |
|-------|------------|---------|---------|----------|
| HRB52 | 0S30FJTE61 | SOD-523 | В | 3000 |



Maximum Ratings (Ta=25°C unless otherwise noted)

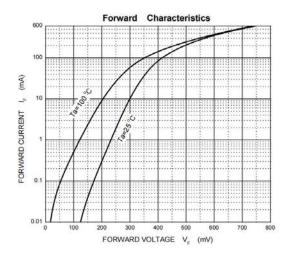
| Symbol | Parameter | Value | Unit |
|------------------|---|----------|------|
| V _R | DC reverse voltage | 30 | V |
| Io | Mean rectifying current | 200 | mA |
| I _{FSM} | Non-repetitive Peak Forward Surge Current@8.3mS | 1000 | mA |
| P _d | Power Dissipation | 150 | mW |
| R _{OJA} | Thermal Resistance From Junction To Ambient | 667 | °C/W |
| TJ | Operation Junction Temperature Range | -40~+125 | °C |
| T _{STG} | Storage Temperature Range | -55~+150 | °C |

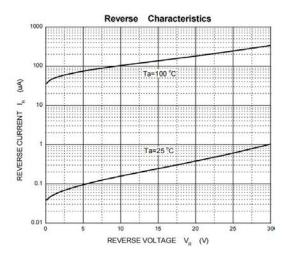
Electrical Characteristics (Ta=25°C unless otherwise noted)

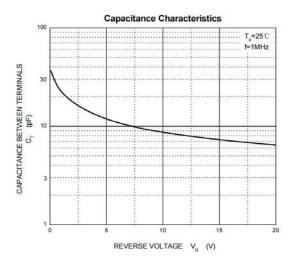
| Symbol | Parameter | Test conditions | Min | Тур | Max | Unit |
|--------|---------------------------------|-----------------|-----|-----|------|------|
| lr | Reverse voltage leakage current | VR=10V | | | 1 | μA |
| VF | Forward voltage | IF=200mA | | | 0.60 | V |

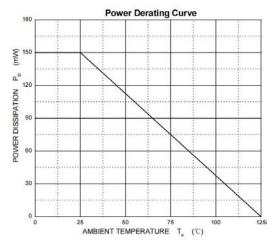


Typical Characteristics



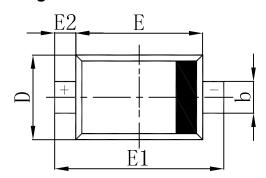


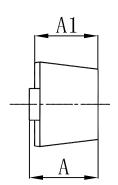


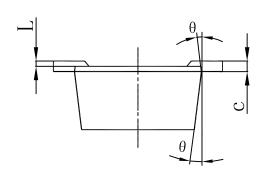




SOD-523 Package Outline Dimensions







| Sum al | imensions In Millimeters | | imensions In Inches | | |
|--------|--------------------------|-------|---------------------|-------|--|
| Sym ol | Min | Max | Min | Max | |
| Α | 0.510 | 0.770 | 0.020 | 0.031 | |
| A1 | 0.500 | 0.700 | 0.020 | 0.028 | |
| b | 0.250 | 0.350 | 0.010 | 0.014 | |
| С | 0.080 | 0.150 | 0.003 | 0.006 | |
| D | 0.750 | 0.850 | 0.030 | 0.033 | |
| E | 1.100 | 1.300 | 0.043 | 0.051 | |
| E1 | 1.500 | 1.700 | 0.059 | 0.067 | |
| E2 | 0.200 REF | | 0.008 REF | | |
| L | 0.010 | 0.070 | 0.001 | 0.003 | |
| θ | 7° REF 7° REF | | REF | | |

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