

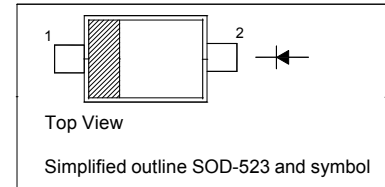
GENERAL PURPOSE PIN DIODES

: 95HI F9`

- Low diode capacitance
- Low diode forward resistance
- Marking: O

PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1 | Cathode |
| 2 | Anode |



AU ja ia 'FU]b[g'UbX'9`YWF]WJ'7\ UFUWYf]gH]WgZG]b[`Y8]cXY
4 HU1 &) °C

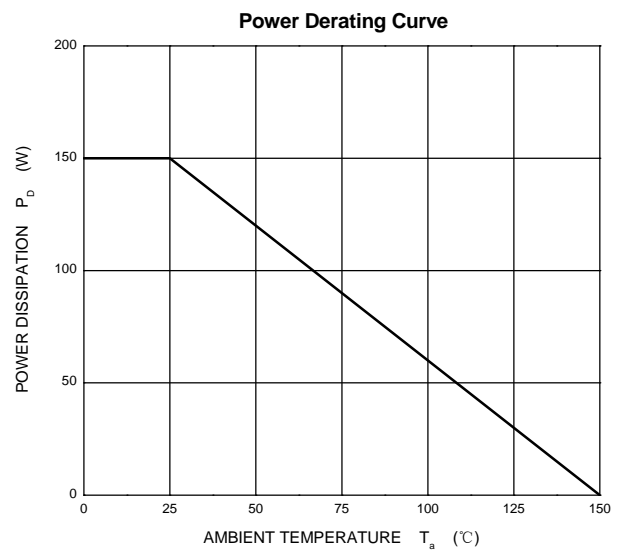
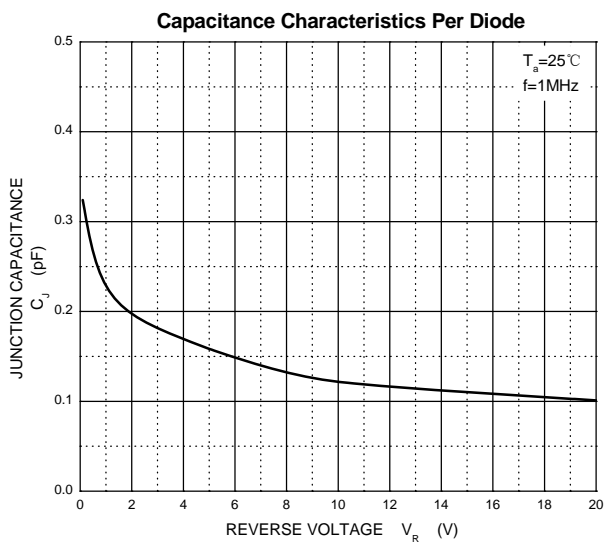
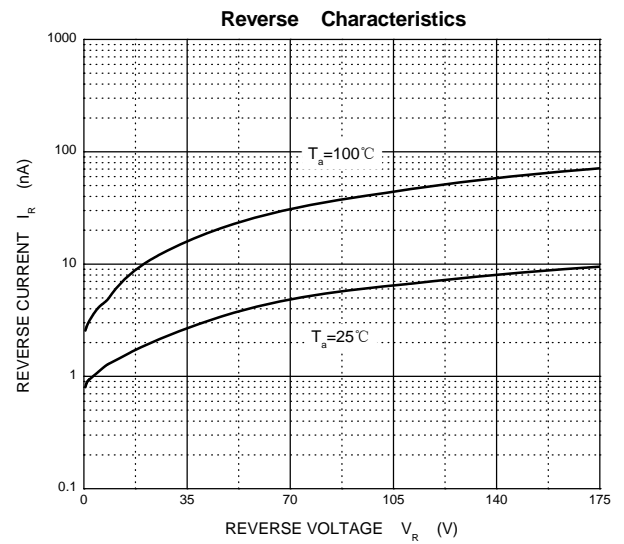
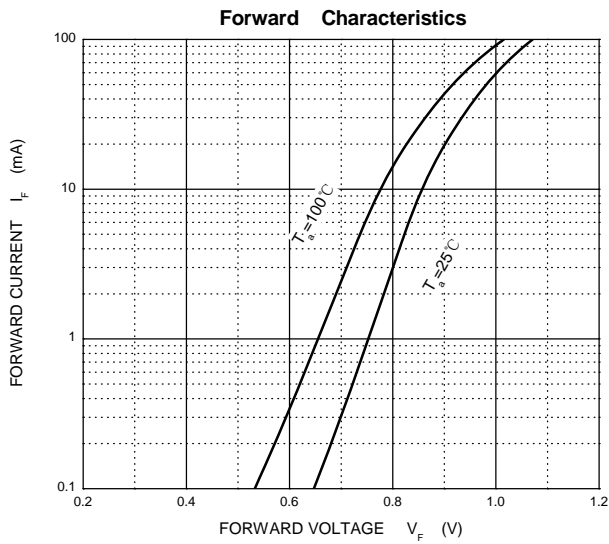
| DUfLa Yhf` | Gna Vc` | @a]h | I b]i |
|---|-----------------|----------|-------|
| 7 cb]bi ci g'FYj YfgY'Jc`HU] Y | V_R | 150 | V |
| 7 cb]bi ci g': cfk UFX'7i ffYbh | I_F | 100 | mA |
| Dck Yf'8]gg]dU]cb` | P_D | 150 | mW |
| H Yfa U'FYg]gHUbW'Zca `>i bW]cb`tc` Gc`XYf]b[`Dc]bh | $R_{\theta JS}$ | 85 | °C/W |
| >i bW]cb`HYa dYfUhi fY` | T_j | -55~+150 | °C |
| GtcfU] YHYa dYfUhi fY` | T_{STG} | -55~+150 | °C |

9`YWF]WJ'FU]b[g'4 HU1 &) °C

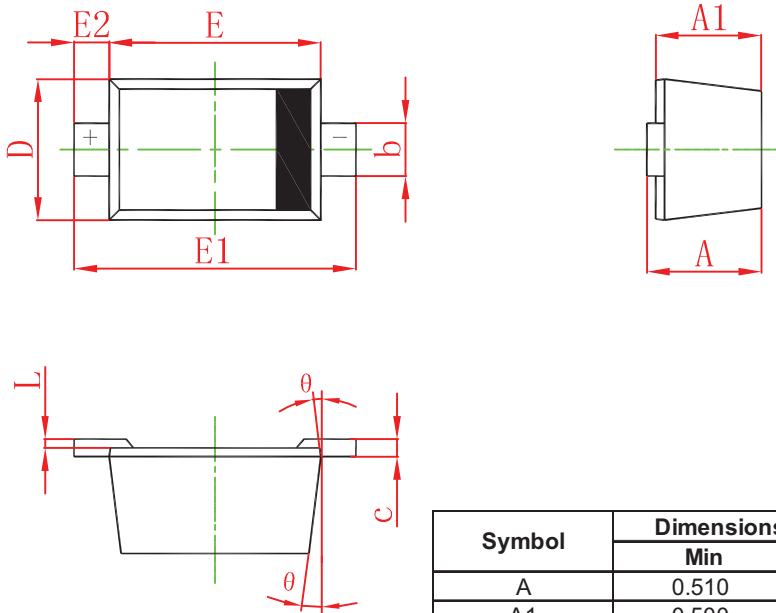
| DUfLa Yhf` | Gna Vc` | A]b | Hnd | AU | I b]i | 7 cbX]H]cb` |
|---------------------------------|----------|-----|------|------|----------|------------------------------|
| 7 cb]bi ci g'FYj YfgY'j c`HU] Y | V_R | 150 | | | V | $I_R=10\mu A$ |
| : cfk UFX'j c`HU] Y | V_F | | | 1.1 | V | $I_F=50mA$ |
| FYj YfgY'W ffYbh | I_R | | | 10 | μA | $V_R=150V$ |
| 8]cXY'WUdUW]HUbW' | C_{d1} | | 0.4* | | pF | $V_R=0V, f=1MHz$ |
| | C_{d2} | | | 0.55 | pF | $V_R=1V, f=1MHz$ |
| | C_{d3} | | | 0.35 | pF | $V_R=5V, f=1MHz$ |
| 8]cXY'Z:fk UFX'fYg]gHUbW' | r_D | | | 9 | Ω | $I_F=0.5mA, f=100MHz; note1$ |
| | r_D | | | 6.5 | Ω | $I_F=1mA, f=100MHz; note1$ |
| | r_D | | | 2.5 | Ω | $I_F=10mA, f=100MHz; note1$ |

Note 1. Guaranteed on AQL basis: inspection level S4,AQL 1.0.

Typical Characteristics

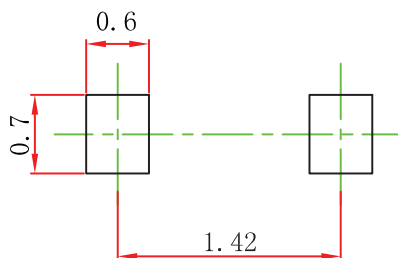


SOD-523 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 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 |
| c | 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 | |

SOD-523 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.