



ESD0502EBQ

Maximum Ratings

| PARAMETER | SYMBOL | LIMITS | UNIT |
|---|-----------|----------|------|
| Peak pulse power ($t_p = 8/20\mu s$) | P_{pk} | 312 | W |
| ESD according to IEC61000-4-2 air discharge | V_{ESD} | ± 30 | KV |
| ESD according to IEC61000-4-2 contact discharge | | ± 30 | |
| Junction temperature | T_J | -55~150 | |
| Storage temperature | T_{STG} | -55~150 | |

Notes:

CAUTION: Stresses above those listed in "Absolute Maximum Ratings" may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

Electrical Characteristics $T_J=25$

| PARAMETER | Symbol | UNIT | Conditions | Min | Typ | Max |
|----------------------------------|-----------|---------|----------------------------------|-----|------|-----|
| Reverse Standoff Voltage | V_{RWM} | V | $I_R = 1\mu A$ | | | 5.0 |
| Reverse breakdown voltage | V_{BR} | V | $I_{BR} = 1mA$ | 6.0 | | 7.8 |
| Reverse leakage current | I_R | μA | $V_{RWM} = 5V$ | | | 1.0 |
| Clamping voltage ¹⁾ | V_{CL} | V | $I_{PP} = 1A, t_p = 8/20\mu s$ | | | 10 |
| | | V | $I_{PP} = 10A, t_p = 8/20\mu s$ | | | 12 |
| | | V | $I_{PP} = 24A, t_p = 8/20\mu s$ | | | 13 |
| Dynamic resistance ²⁾ | R_{DYN} | | TLP, $t_p=100ns$, I/O to Ground | | 0.11 | |
| Peak Pulse Current | I_{PP} | A | $t_p = 8/20\mu s$ | | | 24 |
| Junction capacitance | C_J | pF | $V_R = 0V, f = 1MHz$ | | 50 | 100 |

Notes:

(1). Non-repetitive current pulse, according to IEC61000-4-5.

(2). TLP parameter: Z_0



Characteristics (Typical)

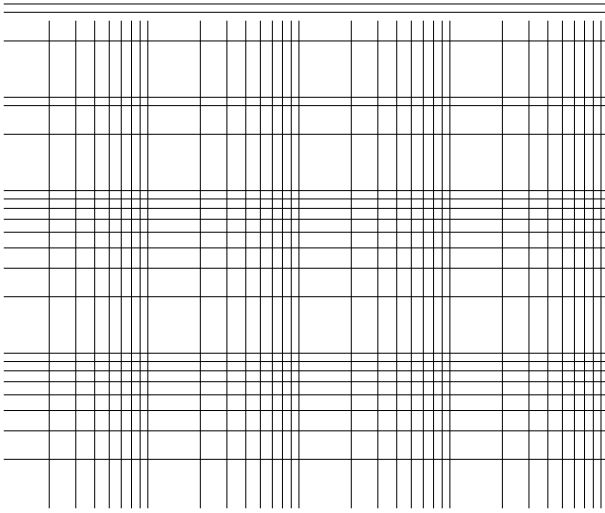
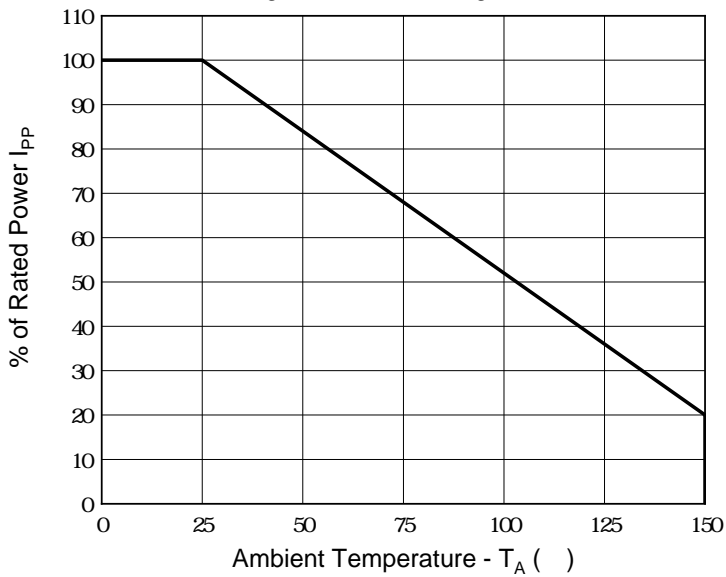
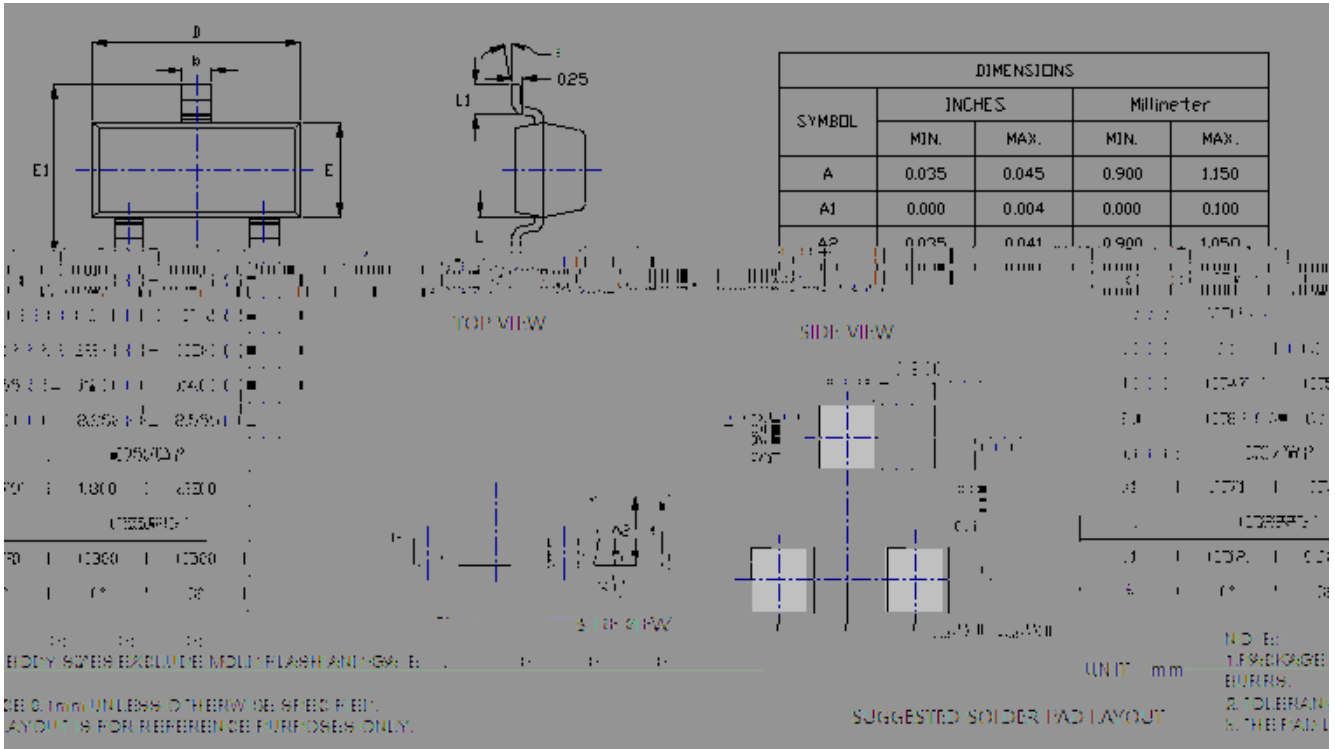


Fig.3: Power Derating Curve

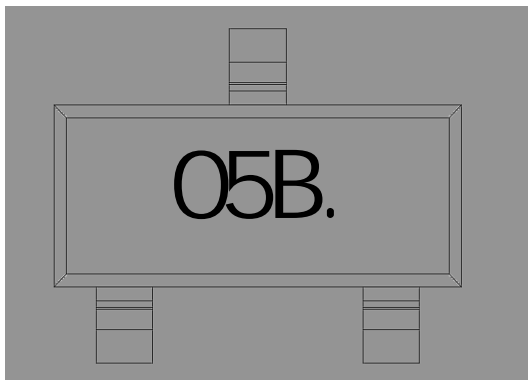




Outline Dimensions



Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black



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Disclaimer

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