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- 20 W Pulsed Power Dissipation
- 100 V Capability •
- **2 A Continuous Collector Current**
- **4 A Peak Collector Current**



MDTRAB

WWW.100 absolute maximum ratings at 25°C case temperature (unless otherwise noted)

| RATING | | SYMBOL | VALUE | UNIT |
|--|--------------------|------------------|-------------|------|
| NAME OF THE AND A CONTRACT OF THE | TIPP115 TIPP116 | | -60 -80 | v |
| Collector-base voltage (I _E = 0) | | | | |
| | TIPP117 | | -100 | |
| W. WY.CO. TW WWW. ODY.CO. TW | TIPP115 | 1001. | -60 | |
| Collector-emitter voltage (I _B = 0) | TIPP116 | V _{CEO} | -80 | V |
| | TIPP117 | | -100 | |
| Emitter-base voltage | | | -5 | V |
| Continuous collector current | | | -2 | A |
| Peak collector current (see Note 1) | | | -4 | Α |
| Continuous base current | | | -50 | mA |
| Continuous device dissipation at (or below) 25°C case temperature (see Note 2) | | | 0.8 | W |
| Pulsed power dissipation (see Note 3) | | | 20 | W |
| Operating junction temperature range | | | -55 to +150 | °C |
| Storage temperature range | Wn. | T _{stg} | -55 to +150 | °C |
| Lead temperature 3.2 mm from case for 10 seconds | M. | TL | 260 | °C |

3. V_{CE} = 20 V, I_{C} = 1 A, P_{W} = 10 ms, duty cycle \leq 2%. WWW.100Y

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PRODUCT INFORMATION

Information is current as of publication date. Products conform to specifications in accordance with the terms of Power Innovations standard warranty. Production processing does not necessarily include testing of all parameters.



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electrical characteristics at 25°C case temperature

| PARAMETER | | TEST CONDITIONS | | | MIN | TYP | MAX | UNIT |
|----------------------|---|---|-----------------------|---------------------|-------------|--------------|------|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | Loo 10ml | WW A WY | TIPP115 | -60 | | | V |
| | | I _C = -10 mA (see Note 4) | $I_{\rm B} = 0$ | TIPP116 TIPP117 | -80 -100 | | | V |
| I _{CEO} | Collector-emitter cut-off current | V _{CE} = -30 V | V _{BE} = 0 | TIPP115 | | | -2 | |
| | | $V_{CE} = -40 V$ | $V_{BE} = 0$ | TIPP116 | 1.1.1 | | -2 | mA |
| | | V _{CE} = -50 V | $V_{BE} = 0$ | TIPP117 | WT . | | -2 | |
| I _{CBO} | Collector-base cut-off current | $V_{CE} = -60 V$ | I _B = 0 | TIPP115 | | N | -1 | |
| | | V _{CE} = -80 V | $I_B = 0$ | TIPP116 | N.L | | -1 | mA |
| | | V _{CE} = -100 V | I _B = 0 | TIPP117 | | N | -1 | |
| I _{EBO} | Emitter cut-off current | V _{EB} = -5 V | $I_{\rm C} = 0$ | WWW.200Y.C | COM | TW | -2 | mA |
| h _{FE} | Forward current | $V_{CE} = -4 V$ | I _C = -1 A | (see Notes 4 and 5) | 1000 | WT. | | |
| | transfer ratio | $V_{CE} = -4 V$ | I _C = -2 A | | 500 | | | |
| V _{CE(sat)} | Collector-emitter saturation voltage | I _B = -8 mA | I _C = -2 A | (see Notes 4 and 5) | Y.CO | м. і Л. Г | -2.5 | V |
| V _{BE} | Base-emitter voltage | V _{CE} = -4 V | I _C = -2 A | (see Notes 4 and 5) | 07.C | ·WO | -2.8 | V |
| V _{EC} | Parallel diode forward voltage | I _E = -4 A | I _B = 0 | (see Notes 4 and 5) | 1001. | COM | -3.5 | V |

NOTES: 4. These parameters must be measured using pulse techniques, $t_p = 300 \ \mu s$, duty cycle $\le 2\%$.

5. These parameters must be measured using voltage-sensing contacts, separate from the current carrying contacts. WWW.1001.CON I.WWW WWW.100Y.C WWW.100Y.COM.TW

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PRODUCT INFORMATION WWW.100Y.COM.TW WWW.100X

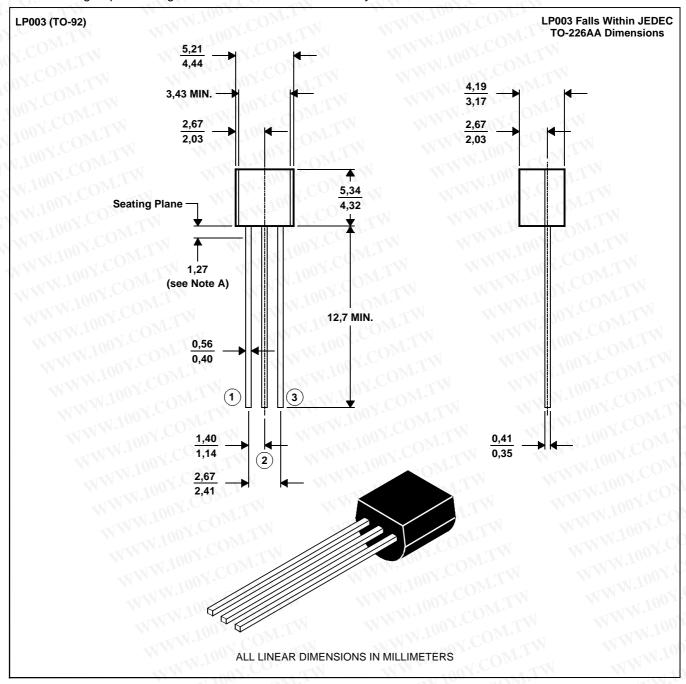
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MECHANICAL DATA

LP003 (TO-92)

3-pin cylindical plastic package

This single-in-line package consists of a circuit mounted on a lead frame and encapsulated within a plastic compound. The compound will withstand soldering temperature with no deformation, and circuit performance characteristics will remain stable when operated in high humidity conditions. Leads require no additional cleaning or processing when used in soldered assembly.



NOTE A: Lead dimensions are not controlled in this area.

MDXXAX



PRODUCT INFORMATION

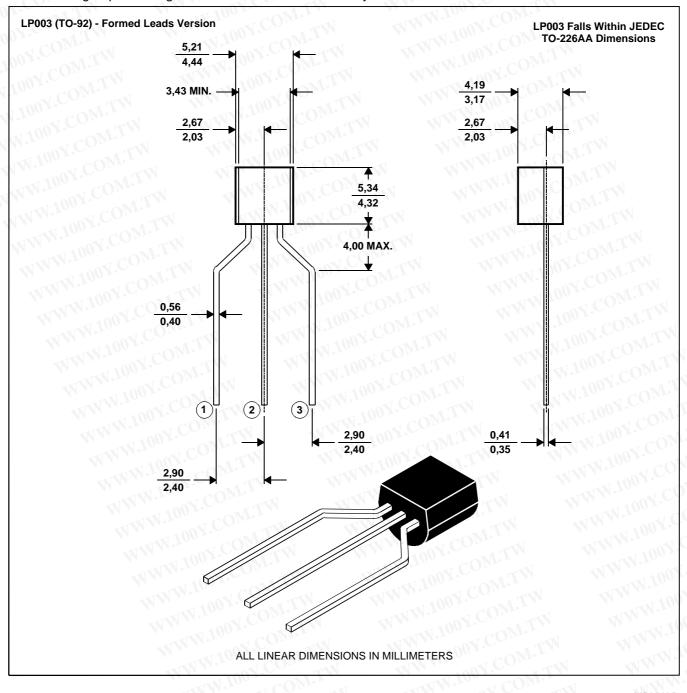
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MECHANICAL DATA

LP003 (TO-92)

3-pin cylindical plastic package

This single-in-line package consists of a circuit mounted on a lead frame and encapsulated within a plastic compound. The compound will withstand soldering temperature with no deformation, and circuit performance characteristics will remain stable when operated in high humidity conditions. Leads require no additional cleaning or processing when used in soldered assembly.



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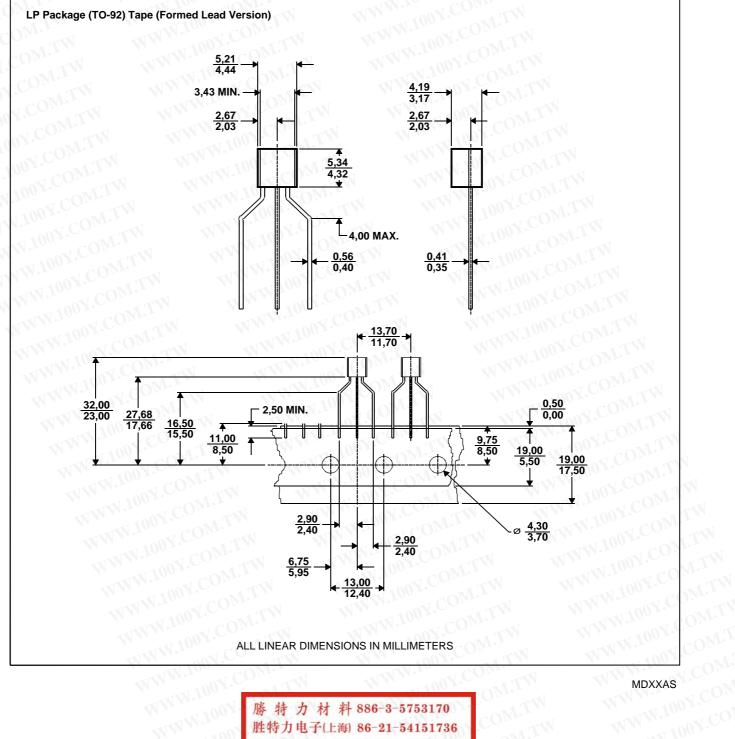
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MECHANICAL DATA

LPR

tape dimensions

PRODUCT



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