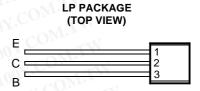
- 20 W Pulsed Power Dissipation
- 100 V Capability
- 2 A Continuous Collector Current
- 4 A Peak Collector Current



MDTRAB

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

RATING	W.	SYMBOL	VALUE	UNIT
MANY CONTRACTOR	TIPP110	100 Y.	60	
Collector-base voltage (I _E = 0)	TIPP111	V_{CBO}	80	V
	TIPP112		100	
WWW. 100X.Co. TH	TIPP110	100X	60	
Collector-emitter voltage (I _B = 0)	TIPP111	V_{CEO}	80	V
	TIPP112		100	
Emitter-base voltage			5	V
Continuous collector current			2	Α
Peak collector current (see Note 1)			CO41	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)	1.1	PT	20	W
Operating junction temperature range			-55 to +150	°C
Storage temperature range		T _{stg}	-55 to +150	°C
Lead temperature 3.2 mm from case for 10 seconds			260	°C

NOTES: 1. This value applies for $t_p \le 0.3$ ms, duty cycle $\le 10\%$.

2. Derate linearly to 150°C case temperature at the rate of 0.32 W/°C.

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

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TIPP110, TIPP111, TIPP112 NPN SILICON POWER DARLINGTONS

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electrical characteristics at 25°C case temperature

PARAMETER		TEST CONDITIONS			MIN	TYP	MAX	UNIT
V _{(BR)CEO}	Collector-emitter	I _C = 10 mA	$I_B = 0$	TIPP110 TIPP111	60 80			V
break	breakdown voltage	(see Note 4) TIPP112	TIPP112	100				
loco	Collector-emitter	V _{CE} = 30 V	$V_{BE} = 0$	TIPP110	-TV		2	
	cut-off current	$V_{CE} = 40 V$	$V_{BE} = 0$	TIPP111	OM.T.		2	mA
	Cut-on Current	$V_{CE} = 50 V$	$V_{BE} = 0$	TIPP112			2	
lono	Collector-base	$V_{CE} = 60 \text{ V}$	$I_B = 0$	TIPP110	Mr.	N	1	
	cut-off current	V _{CE} = 80 V	$I_B = 0$	TIPP111	M_{TT}	-7	1	mA
	cut-on current	V _{CE} = 100 V	$I_B = 0$	TIPP112	- 17		1	
I _{EBO}	Emitter cut-off current	V _{EB} = 5 V	$I_C = 0$	WWW.100Y.C	COM	IVI	2	mA
bo V	Forward current	$V_{CE} = 4 V$	I _C = 1 A	(see Notes 4 and 5)	1000	TW		
h _{FE}	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)		MIT	2.5	V
V_{BE}	Base-emitter voltage	V _{CE} = 4 V	I _C = 2 A	(see Notes 4 and 5)	07.C	OM.	2.8	V
V _{EC}	Parallel diode forward voltage	I _E = 4 A	$I_B = 0$	(see Notes 4 and 5)	00X.	COM	3.5	V

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

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^{5.} These parameters must be measured using voltage-sensing contacts, separate from the current carrying contacts and located within 3.2 mm from device body. WWW.100Y.C

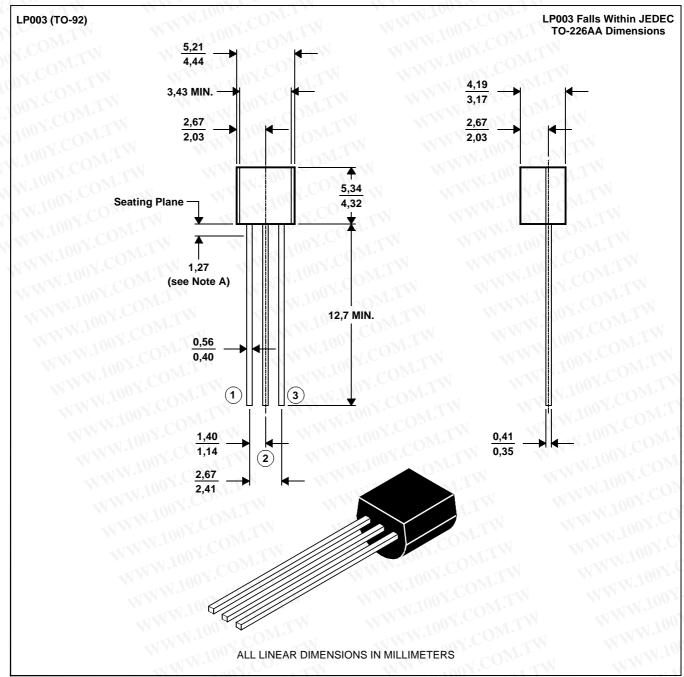
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MECHANICAL DATA

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.

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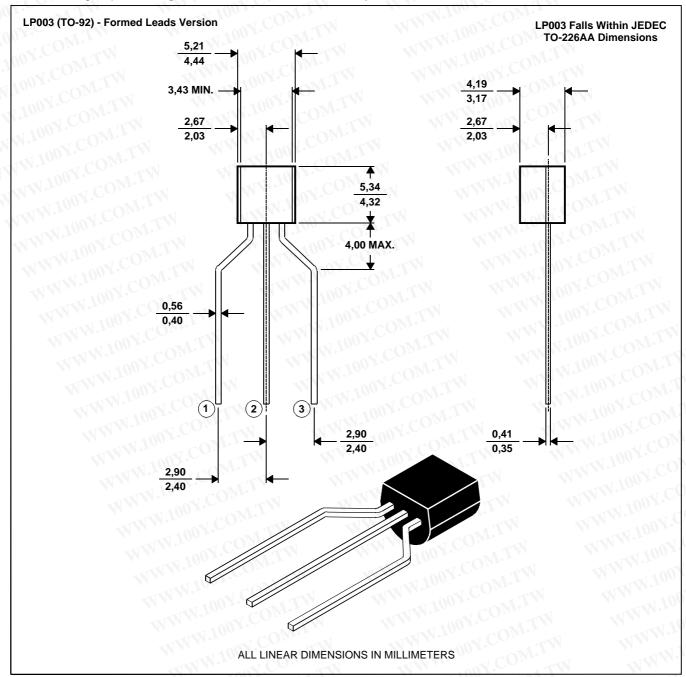
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MECHANICAL DATA

LP003 (TO-92)

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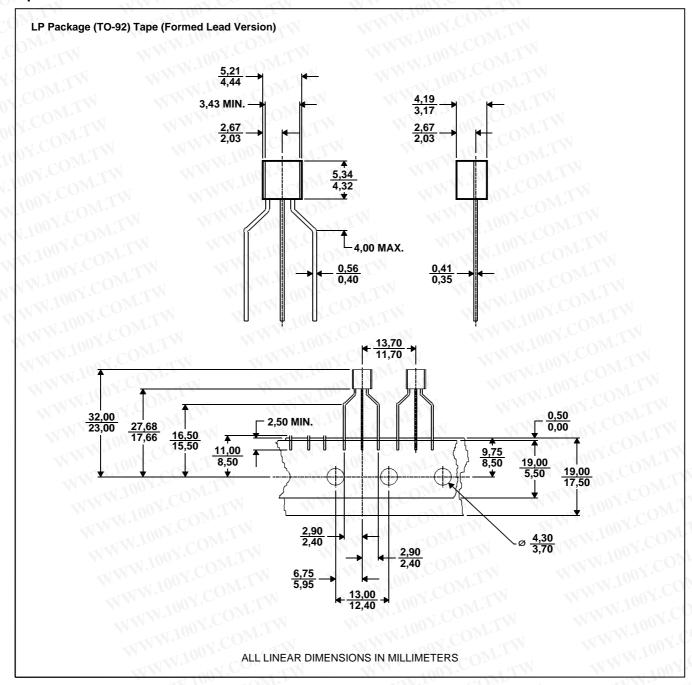
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PRODUCT INFORMATION

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MECHANICAL DATA

LPR tape dimensions



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