捷多邦,专业PCB打样工厂,24小时加急出货

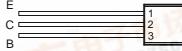
TIPP110, TIPP111, TIPP112 NPN SILICON POWER DARLINGTONS

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- 20 W Pulsed Power Dissipation 250 Co. M. Co. M
- 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			VALUE	UNIT	
	TIPP110		60	-	
Collector-base voltage (I _E = 0)	TIPP111	V _{CBO}	80	V	
	TIPP112	2 FE 3	100		
	TIPP110	AL WAY	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)			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			-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. $V_{CE} = 20 \text{ V}$, $I_C = 1 \text{ A}$, $P_W = 10 \text{ ms}$, duty cycle $\leq 2\%$.



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electrical characteristics at 25°C case temperature

	PARAMETER		TEST CONDIT	TIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO} Collector-emitter breakdown voltage	Collector emitter			TIPP110	60			
		$I_C = 10 \text{ mA}$	$= 10 \text{ mA}$ $I_B = 0$	TIPP111	80			V
	bieakuuwii vullage	(see Note 4)		TIPP112	100			
Collector-emitter cut-off current	Collector emitter	V _{CE} = 30 V	$V_{BE} = 0$	TIPP110			2	
		$V_{CE} = 40 \text{ V}$	$V_{BE} = 0$	TIPP111			2	mA
	cut-on current	$V_{CE} = 50 V$	$V_{BE} = 0$	TIPP112			2	
Collector-base cut-off current	Callagter base	V _{CE} = 60 V	I _B = 0	TIPP110			1	
	$V_{CE} = 80 V$	$I_B = 0$	TIPP111			1	mA	
	cut-on current	V _{CE} = 100 V	$I_B = 0$	TIPP112			1	
I _{EBO}	Emitter cut-off	V _{EB} = 5 V	I _C = 0				2	mA
'EBO	current		10 – 0					1117 (
hee	Forward current	$V_{CE} = 4 V$	I _C = 1 A	(see Notes 4 and 5)	1000			
	transfer ratio	$V_{CE} = 4 V$	$I_C = 2 A$		500			
V _{CE(sat)}	Collector-emitter	I _B = 8 mA	I _C = 2 A	(see Notes 4 and 5)			2.5	V
	saturation voltage						2.0	•
V _{BE}	Base-emitter	V _{CE} = 4 V	I _C = 2 A	(see Notes 4 and 5)			2.8	V
	voltage						2.0	
V _{EC}	Parallel diode	I _E = 4 A	I _B = 0	(see Notes 4 and 5)			3.5	V
	forward voltage						0.0	· ·

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

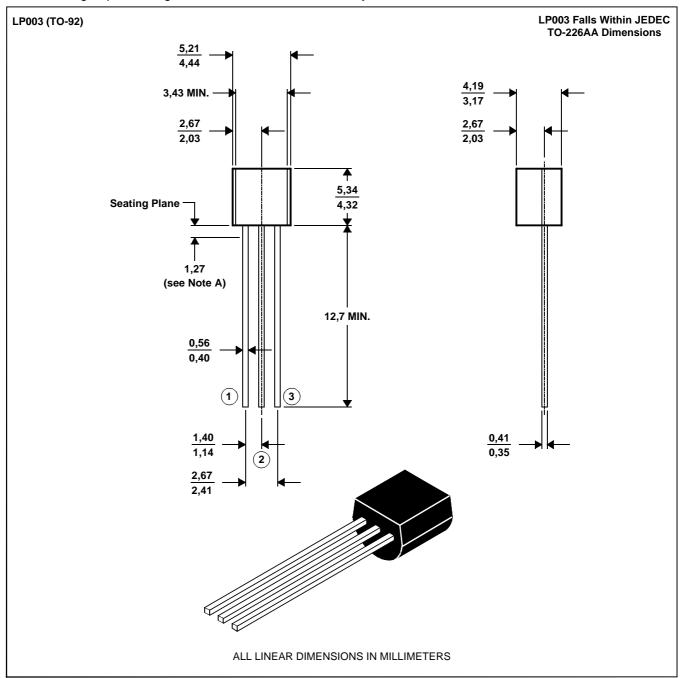
^{5.} These parameters must be measured using voltage-sensing contacts, separate from the current carrying contacts and located within 3.2 mm from device body.

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



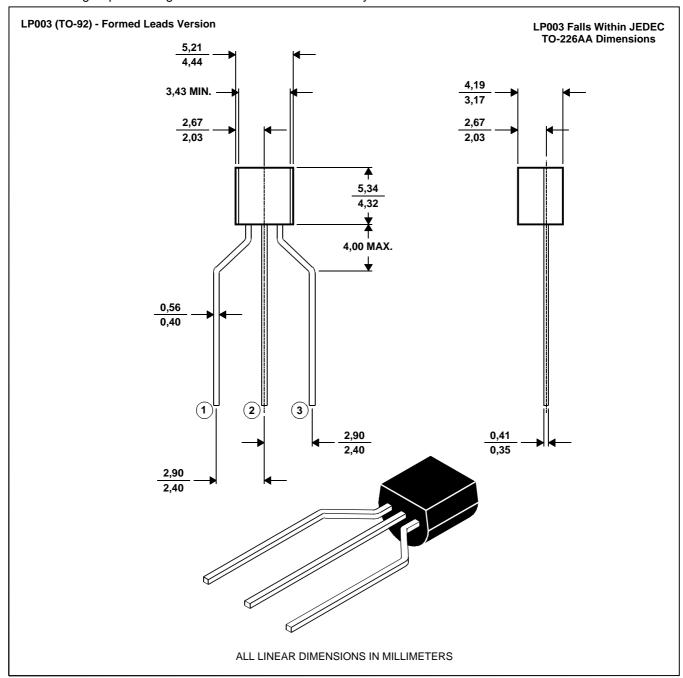
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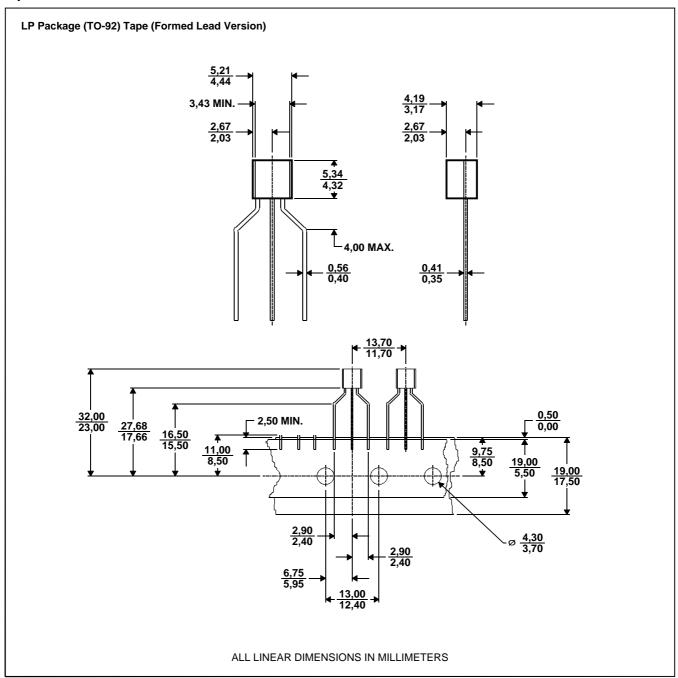


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MECHANICAL DATA

LPR tape dimensions



MDXXAS



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