

NTE2303 Silicon NPN Transistor Horizontal Deflection

Description:

The NTE2303 is a silicon NPN transistor in a TO220 type package designed for use in small screen black and white deflection circuits.

Features:

- Collector–Emitter Voltage: V_{CEX} = 1500V
- Glassivated Base-Collector Junction
- Switching Times with Inductive Loads: t_f = 0.65μs (Typ) @ I_C = 2A

Maximum Ratings:

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Collector–Emitter Voltage, V _{CEO(sus)}	750V
Collector–Emitter Voltage, V _{CEX}	1500V
Emitter–Base Voltage, V _{EBO}	5V
Continuous Collector Current, I _C	2.5A
Continuous Base Current, I _B	2.0A
Continuous Emitter Current, I _E	4.5A
Total Power Dissipation ($T_C = +25^{\circ}C$), P_D	65W
Derate above 25°C	0.65W/°C
Operating Junction Temperature Range, T _J	. –65° to +125°C
Storage Temperature Range, T _{stq}	. –65° to +125°C
Maximum Thermal Resistance, Junction-to-Case, R _{thJC}	1.54°C/W

Electrical Characteristics: $(T_C = +25^{\circ}C \text{ unless otherwise specified})$

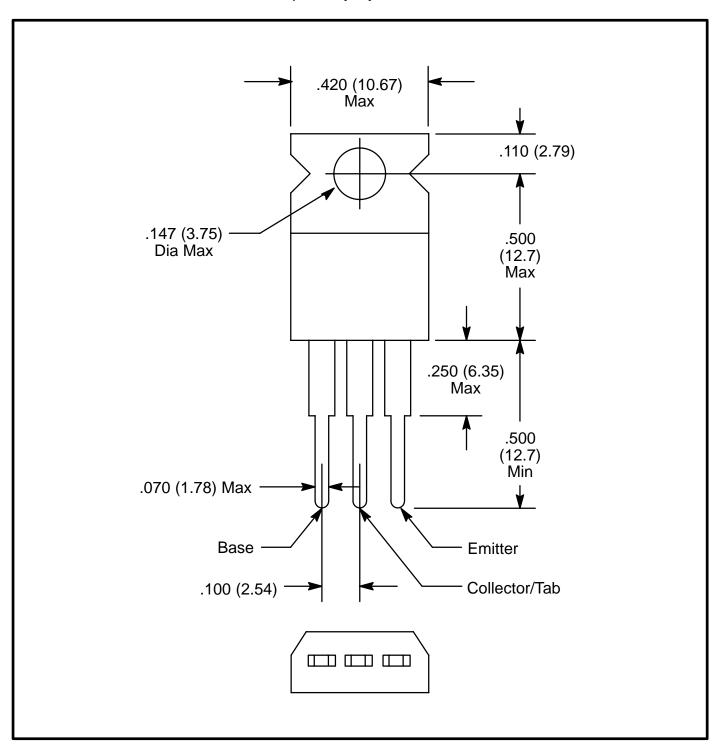
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit				
OFF Characteristics (Note 1)										
Collector–Emitter Sustaining Voltage	V _{CEO(sus)}	$I_C = 50 \text{mA}, I_B = 0$	750	_	_	V				
Collector Cutoff Current	I _{CES}	$V_{CE} = 1500V, V_{BE} = 0$	_	_	1.0	mA				
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$	_	_	0.1	mA				
ON Characteristics (Note 1)										
Collector–Emitter Saturation Voltage	V _{CE(sat)}	$I_C = 2A, I_B = 660mA$	_	_	5.0	V				
Base–Emitter Saturation Voltage	V _{BE(sat)}	I _C = 2A, I _B = 660mA	_	_	1.5	V				

Note 1 Pulse Test: Pulse Width $\leq 300 \mu s$, Duty Cycle = 2%.

<u>Electrical Characteristics (Cont'd)</u>: $(T_C = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit				
Dynamic Characteristics										
Output Capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 0.1MHz$	_	50	_	pF				
Current Gain-Bandwidth Product	f _T	$V_{CE} = 5V$, $I_{C} = 100$ mA, $f_{test} = 1$ MHz, Note 1	_	4.0	_	MHz				
Switching Characteristics										
Fall Time	t _f	$I_C = 2A$, $I_{B1} = 600$ mA, $L_B = 12$ μ H	_	0.65	_	μs				

Note 1 Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycle = 2%.



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