

NTE182 (NPN) & NTE183 (PNP) Silicon Complementary Transistors General Purpose Amplifier, Switch

Description:

The NTE182 (NPN) and NTE183 (PNP) are silicon transistors in a TO127 type case designed for use in general purpose amplifier and switching applications.

Features:

- DC Current Gain Specified to 10A
- High Current Gain-Bandwidth Product: f_T = 2MHz (Min) @ I_C = 500mA

Absolute Maximum Ratings:

	
Collector–Emitter Voltage, V _{CEO}	V
Collector-Base Voltage, V _{CB}	V
Emitter-Base Voltage, V _{EB} 5\	
Collector Current, IC	4
Base Current, I _B	Д
Total Device Dissipation ($T_C = +25^{\circ}C$), P_D	٧
Derate Above 25°C	Э
Operating Junction Temperature Range, T _J	\supset
Storage Temperature Range, T _{stq}	C
Thermal Resistance, Junction-to-Case, R _{thJC} 1.39°C/V	

<u>Electrical Characteristics:</u> (T_C =+25°C unless otherwise specified)

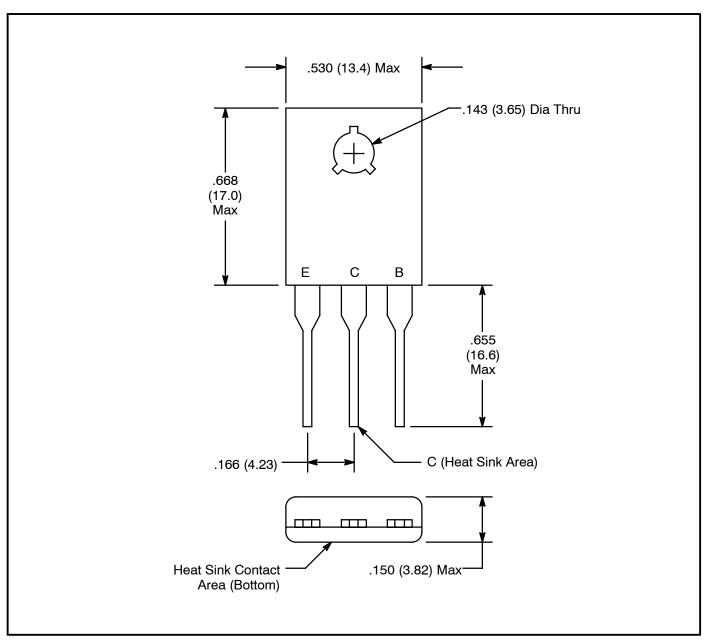
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit					
OFF Characteristics											
Collector-Emitter Sustaining Voltage	V _{CEO(sus)}	I _C = 200mA, I _B = 0, Note 1	60	_	_	V					
Collector Cutoff Current	I _{CEO}	V _{CE} = 30V, I _B = 0	_	_	700	μΑ					
	I _{CEX}	$V_{CE} = 70V, V_{BE(off)} = 1.5V$	_	_	1.0	mA					
		$V_{CE} = 70V, V_{BE(off)} = 1.5V,$ $T_{C} = +150^{\circ}C$	_	-	5.0	mA					
	I _{CBO}	V _{CB} = 70V, I _E = 0	_	_	1.0	mA					
		$V_{CB} = 70V$, $I_E = 0$, $T_C = +150^{\circ}C$	_	_	10	mA					
Emitter Cutoff Current	I _{EBO}	$V_{BE} = 5V, I_{C} = 0$	_	_	5.0	mA					

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

<u>Electrical Characteristics (Cont'd):</u> (T_C =+25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit				
ON Characteristics (Note 1)										
DC Current Gain	h _{FE}	I _C = 4A, V _{CE} = 4V	20	_	100					
		I _C = 10A, V _{CE} = 4V	5.0	_	_					
Base-Emitter ON Voltage	V _{BE(on)}	I _C = 4A, V _{CE} = 4V	_	_	1.8	V				
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 4A, I _B = 400mA	_	_	1.1	V				
		I _C = 10A, I _B = 3.3A	-	_	8.0	V				
Dynamic Characteristics										
Current Gain-Bandwidth Product	f _T	I _C = 500mA, V _{CE} = 10V, f = 1MHz	2.0	_	_	MHz				

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



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