

NTE2562 (NPN) & NTE2563 (PNP) Silicon Complementary Transistors High Current Switch TO-220 Full Pack

Description:

The NTE2562 (NPN) and NTE2563 (PNP) are silicon complementary transistors is a TO-220 full pack type package designed for use as a high current switch. Typical application include relay drivers, high-speed inverters, converters, etc.

Features:

- Low Collector–Emitter Saturation Voltage
- High Current Capacity

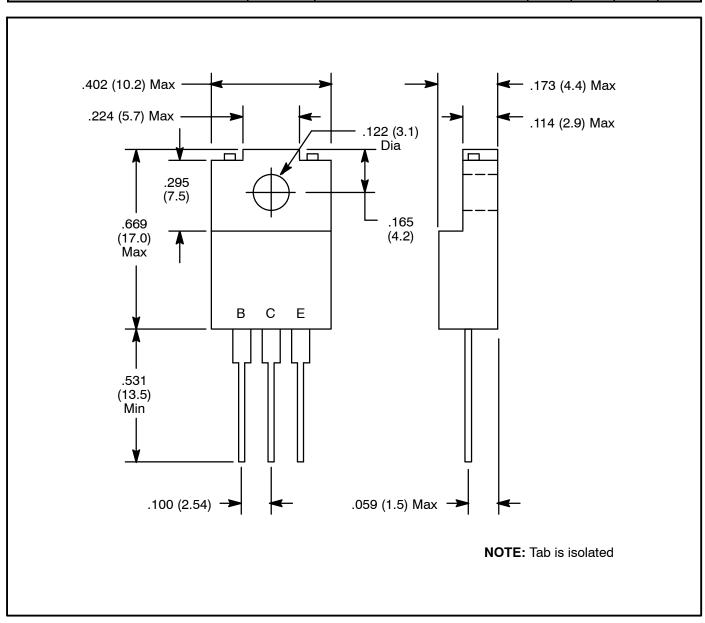
Absolute Maximum Ratings: (T _A = +25°C unless otherwise specified)
Collector-Base Voltage, V _{CBO} 60V
Collector-Emitter Voltage, V _{CEO}
Emitter-Base Voltage, V _{EBO} 6V
Collector Current, I _C Continuous 12A Pulse 20A
Collector Dissipation, P _C
$T_A = +25^{\circ}C$
Operating Junction Temperature, T _J +150°C
Storage Temperature Range, T _{stg} –55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Cutoff Current	I _{CBO}	$V_{CB} = 40V, I_{E} = 0$	_	-	0.1	mA
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 4V$, $I_C = 0$	-	-	0.1	mA
DC Current Gain	h _{FE}	$V_{CE} = 2V$, $I_C = 1A$	100	-	200	
		$V_{CE} = 2V$, $I_C = 6A$	30	-	_	
Current Gain-Bandwidth Product	f _T	V _{CE} = 5V, I _C = 1A	_	120	_	MHz

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector–Emitter Saturation Voltage NTE2562	V _{CE(sat)}	I _C = 5A, I _B = 0.25A	-	_	0.4	V
NTE2563	1		-	_	0.5	V
Collector-Base Breakdown Voltage	V _{(BR)CBO}	$I_C = 1 \text{mA}, I_E = 0$	60	_	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	$I_C = 1$ mA, $R_{BE} = \infty$	30	_	_	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1 \text{mA}, I_C = 0$	6	_	_	V
Turn-On Time NTE2562	t _{on}	$V_{CC} = 10V$, $V_{BE} = -5V$, $10I_{B1} = -10I_{B2} = I_{C} = 5A$, Pulse Width = $20\mu s$, Duty Cycle = 1%	_	0.2	-	μS
NTE2563			-	0.1	-	μs
Storage Time NTE2562			1	0.5	_	μS
NTE2563			_	0.3	_	μS
Fall Time	t _f		-	0.03	_	μs



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