

# NTE2687 Silicon NPN Transistor Fast Switching for High Frequency Inverter TO-220 Fully Pack

#### Features:

- Collector-Emitter Sustaining Voltage: V<sub>CEO(sus)</sub> = 450V Min
- Fast Switching Speed
- Low Saturation Voltage

#### **Applications:**

- Switching Regulators
- High Frequency Inverters
- General Purpose Power Amplifiers

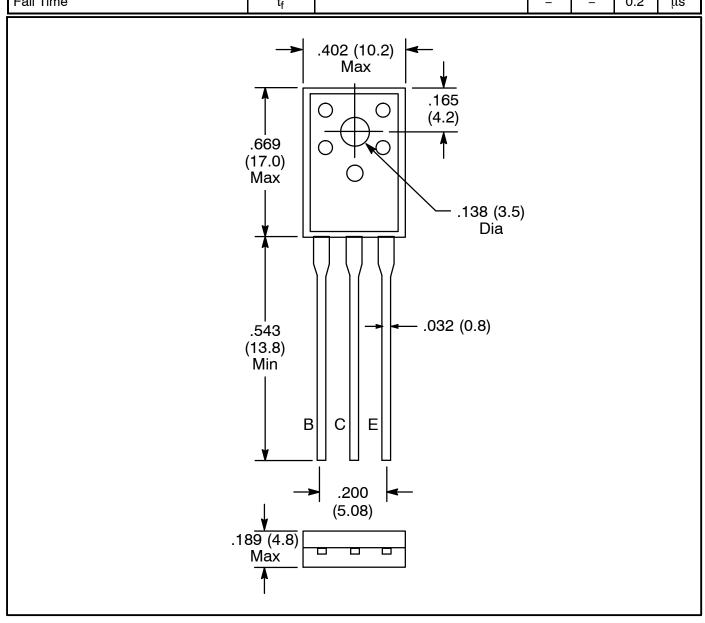
Absolute Maximum Ratings: (T <sub>A</sub> = +25°C unless otherwise specified)
Collector–Base Voltage, V <sub>CBO</sub>
Collector–Emitter Voltage, V <sub>CEO</sub>
Collector–Emitter Voltage (V <sub>EB</sub> = 5V), V <sub>CEX</sub>
Emitter–Base Voltage, V <sub>EBO</sub>
Collector Current, I <sub>C</sub>
Continuous 8A
Peak
Base Current, I <sub>B</sub>
Continuous
Peak 8A
Total Power Dissipation ( $T_C = +25^{\circ}C$ ), $P_T$
Operating Junction Temperature, T <sub>J</sub> +150°C
Storage Temperature Range, T <sub>stq</sub> –55° to +150°C
Thermal Resistance, Junction-to-Case, R <sub>thJC</sub>



Rev. 6-15

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Emitter Sustaining Voltage	V <sub>CEO(sus)</sub>	$I_{\rm C} = 0.2$ A, $I_{\rm B} = 0$ A	450	_	_	V
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 4A, I <sub>B</sub> = 0.8A	_	_	1.0	V
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = 4A, I <sub>B</sub> = 0.8A	-	-	1.5	V
Collector Cutoff Current	I <sub>CBO</sub>	At rated voltage	-	-	100	μΑ
	I <sub>CEO</sub>	At rated voltage	_	-	100	μΑ
Emitter Cutoff Current	I <sub>EBO</sub>	At rated voltage	-	-	100	μΑ
DC Current Gain	h <sub>FE</sub>	I <sub>C</sub> = 4A, V <sub>CE</sub> = 5V	10	_	_	
		$I_C = 1 \text{mA}, V_{CE} = 5 \text{V}$	5	-	_	
Current Gain - Bandwidth Product	f <sub>T</sub>	$I_C = 0.8A, V_{CE} = 10V$	-	20	_	MHz
Turn-On Time	t <sub>on</sub>	$I_{C} = 4A$ , $I_{B1} = 0.8A$ , $I_{B2} = -1.6A$ , $R_{L} = 37.5\Omega$ , $V_{BB2} = 4V$	-	-	0.5	μS
Turn-Off Time	t <sub>off</sub>		_	_	2.0	μS
Fall Time	t <sub>f</sub>		_	_	0.2	μS



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