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## NTE2701 Silicon PNP Transistor Driver for DC-DC Converter (Compl to NTE2699) TO-220 Full Pack Type Package

**Features:**

- Collector-Emitter Sustaining Voltage:  $V_{CE(sus)} = 60V$  Min
- High DC Current Gain:  $h_{FE} 150$  (Min) @  $V_{CE} = 2V, I_C = 3A$
- Low saturation Voltage:  $V_{CE(sat)} = 300mV$  (Max) @  $I_C = 8A, I_B = 400mA$

**Applications:**

- Driver for DC/DC Converter
- Actuator Driver

**Absolute Maximum Ratings:** ( $T_A = +25^\circ C$  unless otherwise specified)

Collector-Base Voltage, $V_{CBO}$ .....	100V
Collector-Emitter Voltage, $V_{CEO}$ .....	60V
Emitter-Base Voltage, $V_{EBO}$ .....	7V
Collector Current, $I_C$	
Continuous .....	15A
Pulse .....	30A
Continuous Base Current, $I_B$ .....	7.5A
Total Power Dissipation, $P_T$	
$T_C = +25^\circ C$ .....	30W
$T_A = +25^\circ C$ .....	2.0W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = 50mA, I_B = 0$	60	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 8A, I_B = 400mA$	-	-	0.3	V
		$I_C = 12A, I_B = 600mA$	-	-	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 8A, I_B = 400mA$	-	-	1.2	V
		$I_C = 12A, I_B = 600mA$	-	-	1.5	V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = 60V, I_E = 0$	-	-	10	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$	-	-	10	$\mu A$
DC Current Gain	$h_{FE}$	$I_C = 3A, V_{CE} = 2V$	150	-	300	



