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NTE2699 Silicon NPN Transistor Driver for DC-DC Converter (Compl to NTE2701) 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	μA
	I_{CEO}	$V_{CE} = 60V, I_B = 0$	-	-	1.0	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$	-	-	10	μA
DC Current Gain	h_{FE}	$I_C = 3A, V_{CE} = 2V$	150	-	300	



