



THE DATASHEET OF
2N6725





ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

2N6725

Silicon NPN Darlington Transistor TO-237 Type Package

Description:

The 2N6725 is a silicon NPN Darlington power transistors designed for amplifier applications.

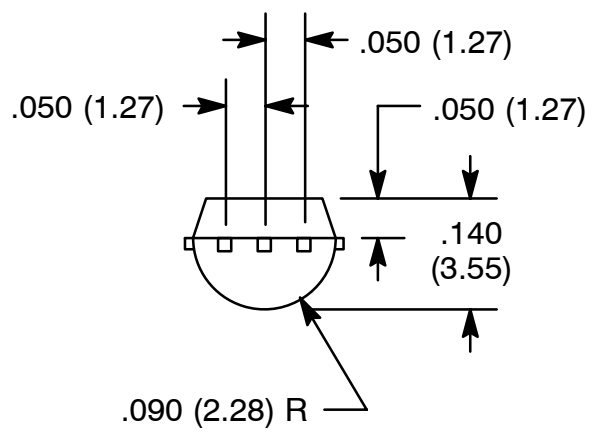
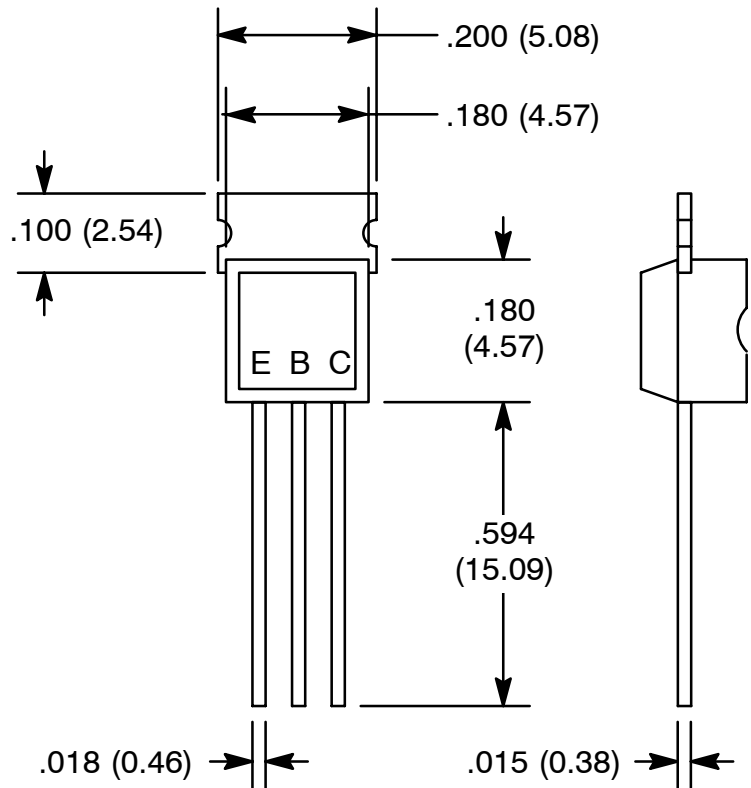
Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Collector-Base Voltage, V_{CBO}	60V
Collector-Emitter Voltage, V_{CEO}	50V
Emitter-Base Voltage, V_{EBO}	12V
Continuous Collector Current, I_C	2A
Continuous Base Current, I_B	0.5A
Power Dissipation, P_D $T_C = +25^\circ\text{C}$	2W
Operating Junction Temperature Range, T_J	-65° to +150°C
Storage Temperature Range, T_{stg}	-65° to +150°C
Thermal Resistance, Junction-to-Case, R_{thJC}	62.5°C/W

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)


Parameter	Symbol	Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1\mu\text{A}, I_E = 0$	60	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, I_B = 0$ (Note 1)	50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu\text{A}, I_C = 0$	10	-	-	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 30\text{V}, I_E = 0$	-	-	1.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 8\text{V}, I_C = 0$	-	-	0.1	μA
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 200\text{mA}, I_B = 2\text{mA}$ (Note 1)	-	-	1.0	V
		$I_C = 1\text{A}, I_B = 2\text{mA}$ (Note 1)	-	-	1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 1\text{A}, I_B = 2\text{mA}$ (Note 1)	-	-	2.0	V
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	$I_C = 1\text{A}, V_{CE} = 5\text{V}^*$ (Note 1)	-	-	2.0	V
Static Forward Current Transfer Ratio	h_{FE}	$I_C = 200\text{mA}, V_{CE} = 5\text{V}^*$ (Note 1)	25k	-	-	
		$I_C = 500\text{mA}, V_{CE} = 5\text{V}^*$ (Note 1)	15k	-	-	
		$I_C = 1\text{A}, V_{CE} = 5\text{V}^*$ (Note 1)	4k	-	40k	
Collector Base Capacitance	C_{CB}	$V_{CB} = 10\text{V}, f = 1\text{MHz}$	-	-	10	pF

Note 1. Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$



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