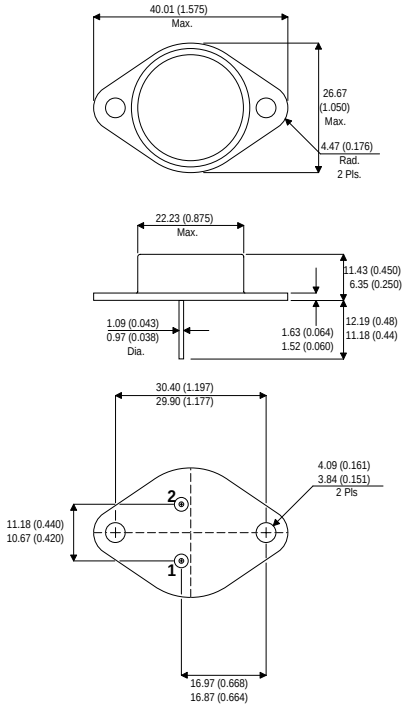
2N3792

MECHANICAL DATA
Dimensions in mm(inches)



TO3 (TO-204AA)

PIN 1 — Base PIN 2 — Emitter Case is Collector.

PNP SILICON EPITAXIAL BASE POWER TANSISTORS

APPLICATIONS
Linear Power and Switching Applications

ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

V_{CBO}	Collector – Base Voltage(I_E = 0)	- 80V
$V_{CEO(sus)}$	Collector – Emitter Voltage (I_B = 0)	- 80V
V_{EBO}	Emitter – Base Voltage(I_C = 0)	- 7V
I_C	Collector Current	- 10A
I_B	Base Current	- 4A
P_{TOT}	Total Power Dissipation at T_{case} = 25°C	150W
T_{stg}	Storage Temperature	65 to 200°C
T_j	Junction Temperature	200°C

THERMAL CHARACTERISTICS

$R_{\theta JC}$	Thermal Resistance, Junction to Case	1.17 °C/W

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Document Number 3325
Issue 2

2N3792

ELECTRICAL CHARACTERISTICS (T_{case} = 25°C unless otherwise stated)

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
$V_{CEO(sus)}$*	Collector - Emitter Sustaining Voltage	I_C = - 200mA	I_B = 0	-80			V
$V_{CE(sat)}$*	Collector - Emitter Saturation Voltage	I_C = - 5A	I_B = - 0.5A	-1			
$V_{BE(on)}$*	Base Emitter Voltage	I_C = - 5A	V_{CC} = - 2V			-1.8	V
		I_C = - 10A	V_{CC} = - 4V			- 4	
I_{EBO}	Emmiter Cut-off Current	I_C = 0	V_{EB} =7V			-5	mA
I_{CEX}	Collector Cut-off Current	V_{BE} = -1.5V	V_{CE} = -80V			-1	mA
			T_c = 150℃			-10	
h_{FE}*	DC Current Gain	I_C = 1A	V_{CE} = 2V	50		180	—
		I_C = 3A	V_{CE} = 2V	30			
		I_C = 10A	V_{CE} = 4V	5			
f_t	Transition Frequency	I_C = -0.5A f =1MHz	V_{CE} = -10V	4			MHz

* Pulsed duration = 300 μs, duty cycle = 1.5%

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