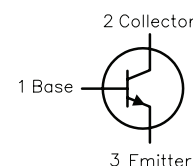
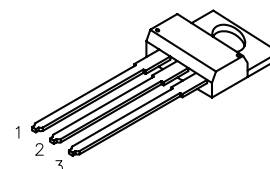


**RoHS
Compliant**



Absolute Maximum Ratings:

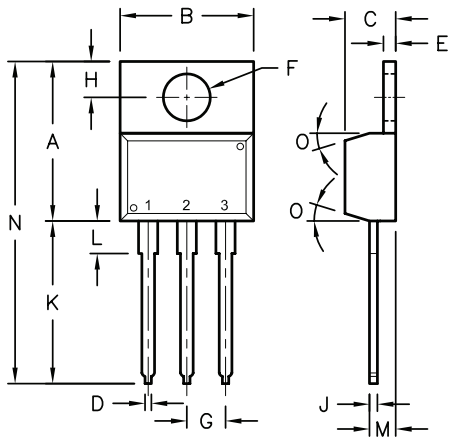
Characteristic	Symbol	Rating
Collector - Base Voltage	V_{CBO}	70V
Collector - Emitter Voltage	V_{CEO}	80V
Emitter - Base Voltage	V_{EBO}	5V
Continuous Collector Current	I_C	7A
Base Current	I_B	3A
Total Device Dissipation ($T_c = +25^\circ\text{C}$) Derate above 25°C	P_D	40W 40mW/ $^\circ\text{C}$
Operating Junction Temperature Range	T_J	-65°C to $+150^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65°C to $+150^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
OFF Characteristics					
Collector-Emitter Breakdown Voltage (Note 1)	$V_{(BR)CEO}$	$I_C = 100\text{mA}, I_B = 0$	70	-	V
Collector Cut-Off Current	I_{CEX}	$V_{CE} = 80\text{V}, V_{EB(OFF)} = 1.5\text{V}$	-	100	μA
	I_{CEO}	$V_{CB} = 60\text{V}, I_B = 0$	-	1	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$	-	1	mA
ON Characteristics					
DC Current Gain (Note 1)	h_{FE}	$V_{CE} = 4\text{V}, I_C = 2\text{A}$	30	150	-
		$V_{CE} = 4\text{V}, I_C = 7\text{A}$	2.3	-	-
Collector-Emitter Saturation Voltage (Note 1)	$V_{CE(SAT)}$	$I_C = 7\text{A}, I_B = 3\text{A}$	-	3.5	V
Base-Emitter On Voltage (Note 1)	$V_{BE(ON)}$	$I_C = 7\text{A}, V_{CE} = 4\text{V}$	-	3	V
Small-Signal Characteristics					
Current Gain-Bandwidth Product (Note 2)	f_T	$V_{CE} = 4\text{V}, I_C = 500\text{mA}, f = 1\text{MHz}$	4	-	MHz
Output Capacitance	C_{OBO}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$	-	250	pF
Small-Signal Current Gain	h_{FE}	$V_{CE} = 4\text{V}, I_C = .5\text{A}, f = 50\text{kHz}$	20	-	-

Note 1: Pulse test : Pulse width $\leq 300\mu\text{s}$, duty cycle $\leq 2\%$

Note 2: f_T is defined as the frequency at which h extrapolates to unity.



Pin Configuration:

- 1. Base
- 2. Collector
- 3. Emitter

Dim.	A	B	C	D	E	F	G	H	J	K	L	M	N	O
Min.	14.42	9.63	3.65	-	1.15	3.75	2.29	2.54	-	12.7	2.8	2.03	-	7°
Max.	16.51	10.67	4.83	0.9	1.4	3.88	2.79	3.43	0.56	14.73	4.07	2.92	31.24	

Dimensions : Millimetres

Part Number Table

Description	Part Number
Bipolar Transistor, NPN, 7A, 70V, TO-220	2N6292

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