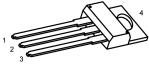
Transistor General Purpose

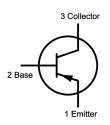








RoHS



Pin Configuration:

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

Description:

A Silicon epitaxial PNP Darlington transistor in a TO-220 type Case designed for general-purpose amplifier and Low speed switching circuits.

Features:

• High DC Current Gain

Maximum Ratings:

- Collector-Emitter Sustaining Voltage V_{CEO(SUS)}=100V Min.
- Monolithic Construction With Built-in Base-Emitter Shunt Resistors

Characteristic	Symbol	Rating	Unit	
Collector-Emitter Voltage	V _{CEO}	80		
Collector-Base Voltage	V _{CB}	00	V	
Emitter-Base Voltage	V _{EB}	5		
Collector Current -Continuous -Peak	Ι _c	8 16	A	
Base Current	I _B	120	mA	
Total Device Dissipation -(T _C = +25°C), Derate Above 25°C		75 0.6	w	
Total Device Dissipation -(T _A = +25°C), Derate Above 25°C	P _D	2.2 0.0175	W/°C	
Operating Junction Temperature Range	Τ _J	65 to 1150	Э°	
Storage Temperature Range,	T _{stg}	-65 to +150	U	
Thermal Resistance, Junction-to-Case,	R _{thJC}	1.67	2011/	
Thermal Resistance, Junction-to-Ambient,	R _{thJA}	57	°C/W	

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Electrical Characteristics: (T_c = +25°C unless otherwise specified)

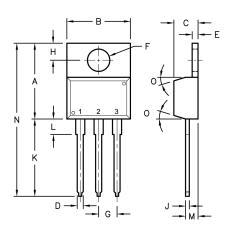
C_{ob}

Parameter	Symbol	Test Conditions	Min	Max	Unit
Collector-Emitter Saturation Voltage	V _{CEO(SUS)}	I _C = 100mA, I _B = 0, Note 1	80	-	V
	I _{CEO}	V _{CE} = 80V, I _B = 0		20	
Collector Cutoff Current	I _{CEX}	V _{CE} = 80V, V _{BE(off)} = -1.5V		20	μA
		V _{CE} = 80V, V _{BE (off)} = -1.5V ,T _C = +150°C] -	200	
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$		2	mA
On Characteristics					
DC Current Gain	h _{FE}	$V_{CE} = 4V, I_{C} = 4A$	1,000	20,000	
		V _{CE} = 4V, I _C = 8A	100	-	-
Collector-Emitter Saturation Voltage	V _{CE(Sat)}	I _C = 4A, I _B = 16mA		2	
		I _C = 8A, I _B = 80mA] -	4	V
Base-Emitter ON Voltage	V _{BE(on)}	$V_{CE} = 4V, I_C = 4A$		2.8	
Dunamic Characteristics					
Small-Signal Current Gain	h _{fe}	V _{CE} = 5V, I _C = 1A, f = 1MHz	4		
	h _{fe}	V _{CE} = 4V, I _C = 3A, f = 1kHz	300		-
			1	1	

Note:

Output Capacitance

1. Pulse Width = 300 μ s, Duty Cycle $\leq 2\%$



Pin Configuration:

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

Dimension	Min.	Max.	
A	14.42	16.51	
В	9.63	10.67	
С	3.56	4.83	
D	-	0.9	
E	1.15	1.4	
F	3.75	3.88	
G	2.29	2.79	
Н	2.54	3.43	
J	-	0.56	
К	12.7	14.73	
L	2.8	4.07	
М	2.03	2.92	
Ν	-	31.24	
0	7°		
Dimensions : Millimetres			

 $V_{CB} = 10V, I_{E} = 0, f = .1MHz$

Part Number Table

Description		Part Number	
	stor, PNP, 8A, /, TO-220	2N6124	

300

pF

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