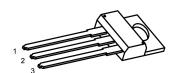
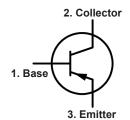
Bipolar Transistor



RoHS Compliant







Pin Configuration:

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

Description:

A Silicon epitaxial PNP transistor in a standard TO-220 type package designed for use in general-purpose amplifier and switching applications.

Maximum Ratings:

Characteristic	Symbol	Rating	Unit		
Collector-Base Voltage	V _{CB}	45			
Collector-Emitter Voltage	V _{CEO}	45	V		
Emitter-Base Voltage	V _{EB}]			
Collector Current -Continuous	I _C	4	^		
Base Current	I _B	1	A A		
Collector Power Dissipation (T _C = +25°C), Derate Above 25°C	P_{D}	40 0.32	W W/°C		
Operating Junction Temperature Range	T _J	05.1450	0.0		
Storage Temperature Range	T _{stg}	-65 to +150	°C		
Thermal Resistance, Junction-to-Case	R _{thJC}	3.125	°C/W		

Bipolar Transistor



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

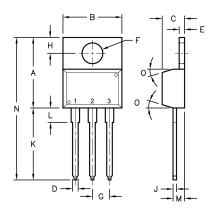
Parameter	Symbol	Test Conditions	Min	Max	Unit		
Off Characteristics							
Collector-Emitter Saturation Voltage	$V_{CEO(SUS)}$ $I_C = 100 \text{mA}, I_B = 0, \text{Note 1}$		45	-	V		
	I _{CEO}	$V_{CE} = 45V, I_{B} = 0$		0.1			
Collector Cutoff Current	I_{CEX} $V_{CE} = 45V, V_{BE(off)} = 1.5V$ $V_{CE} = 45V, V_{BE(off)} = -1.5V, T_{C} = +125^{\circ}C$		-	2	mA		
				2			
Emitter Cutoff Current	I _{EBO}	$V_{BE} = 5V, I_{C} = 0$		1			
On Characteristics (Note 1)							
DC Current Gain	h _{FE}	V _{CE} = 2V, I _C = 1.5A	25	100			
DC Current Gain		$V_{CE} = 2V, I_{C} = 4A$	10	-			
Collector-Emitter Saturation Voltage	V _{CE(Sat)}	I _C = 4A, I _B = 1A		1.4	V		
Base-Emitter ON Voltage	V _{BE(on)}	V _{CE} = 2V, I _C = 1.5A	-	1.2	\ \ \		

Dynamic Characteristics

Current Gain - Bandwidth Product	f_T	$V_{CE} = 4V, I_{C} = 0.1A, f = 1MHz$	2.5		MHz
Small - signal Current Gain	h _{fe}	$V_{CB} = 2V, I_{C} = 0.1A, f = 1kHz$	25	-	

Note:

1. Pulse Test: Pulse Width = 300µs, Duty Cycle ≦2%



Dim	Α	В	С	D	E	F	G	Н	J	K	L	М	N	0
Min.	14.42	9.63	3.65	-	1.15	3.75	2.29	2.54	-	12.7	2.8	2.03	-	70
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
Transistor, PNP, 4A, 45V, TO-220	2N6124

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