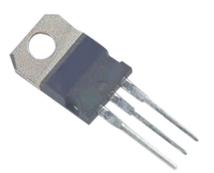
Power Transistor

multicomp





Pin Configuration:

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

Feature:

- High power complimentary pairs
- For high quality audio output stages, and general purpose push-pull amplifier configurations
- Silicon epitaxial fabrication power transistors
- High frequency drivers in audio amplifier

Absolute Maximum Ratings:

Parameter	Symbol	Value	Unit	
Collector Base Voltage	V _{CBO}	250		
Collector Emitter Voltage	V _{CEO}	250	V	
Emitter Base Voltage	V _{EBO}	5		
Collector Current Continuous Peak	۱ _C	8	A	
Base Current	Ι _Β	2		
Power Dissipation T _C = 25°C Derate Above 25°C	PD	50 0.4	W	
Power Dissipation T _a = 25°C Derate Above 25°C	P _D	2 0.016	W/°C	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	-65 to +150	°C	

Thermal Resistance

Thermal Ambient	R _{th (j-a)}	62.5	°C/W	
Junction to Case	R _{th (j-c)}	2.5	C/W	

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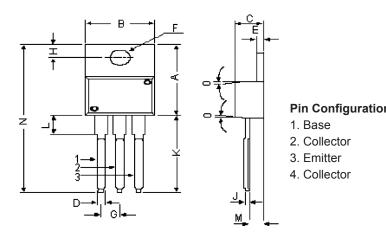


Electrical Characteristics (Tc = 25°C unless specified otherwise):

Parameter	Symbol	Test Condition	Min.	Max.	Unit	
Collector Emitter Sustaining Voltage	V _{CEO (sus)} *	I _C = 10mA, I _B = 0	250	-	V	
Collector Cut off Current	I _{CBO}	V _{CB} = 150V, I _E = 0	-	10		
Emitter Cut off Current	I _{EBO}	V _{BE} = 5V, I _C = 0	-	10 µA		
DC Current Gain	h _{FE} *	$I_{C} = 0.5A, V_{CE} = 5V$ $I_{C} = 1A, V_{CE} = 5V$ $I_{C} = 2A, V_{CE} = 5V$	50 50 10	-	-	
Collector Emitter Saturation Voltage	V _{CE (sat)} *	I _C = 1A, I _B = 0.1A	-	0.5	V	
Base Emitter On Voltage	V _{BE (on)} *	I _C = 1A, V _{CE} = 5V	-	1.0	V	
Dynamic Characteristics	-					
Current Gain-Bandwidth Product	f _T **	I_{C} = 500mA, V_{CE} = 10V f_{test} = 1MHz	30	-	MHz	

*Pulse Test: Pulse Width ≤300µs, Duty Cycle ≤2%.

** $\mathbf{f}_{\mathsf{T}} = |\mathbf{h}_{\mathsf{fe}}| \cdot \mathbf{f}_{\mathsf{test}}$.



Part Number Table

Description	Part Number	
Transistor, NPN, TO-220	MJE15032	

	Dimensions	Min.	Max.
n:	А	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	20

Dimensions : Millimetres

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