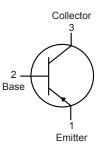
Bipolar Transistor











Description:

Silicon TO-126, PNP Power Transistor for use in power amplifier and switching excellent safe area limits

Maximum Ratings:

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	V _{CBO}	80		
Collector-Emitter Voltage	V _{CEO}	00	V	
Emitter-Base Voltage	V _{EBO}	5		
Continuous Collector Current	I _c	4	۸	
Base Current	I _B	1	А	
Total Device Dissipation (T _C = +25°C) Derate Above 25°C	P_{D}	40 320	W mW/°C	
Operating Junction Temperature Range	T _J	05 to 1450	°C	
Storage Temperature Range	T _{stg}	-65 to +150		

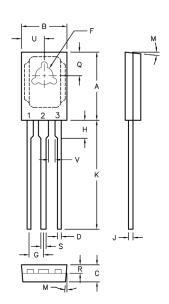


Bipolar Transistor



Parameter	Symbol	Test Conditions	Min.	Max.	Unit
OFF Characteristics					
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	$I_{\rm C}$ = 100mA, $I_{\rm B}$ = 0 (Note 1)	80	-	V
Collector Cut-Off Current	I _{CEO}	$V_{CE} = 80V, I_{E} = 0$		1	mA
	I _{CEX}	$V_{CE} = 80V_{EB(off)}, I_{E} = 1.5V$		0.1	
	I _{CBO}	$V_{CB} = 80V, I_{E} = 0$] -	0.1	ША
Emitter Cut-Off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$		1	
ON Characteristics					
DC Current Gain (Note 1)	h _{FE}	$V_{CE} = 2V, I_{C} = 1.5A$	20	80	
		$V_{CE} = 2V$, $I_{C} = 4A$	7	-	-
Collector - Emitter Saturation Voltage (Note 1)	\/	$I_{\rm C}$ = 1.5A, $I_{\rm B}$ = .15mA		0.6	
	V _{CE(sat)}	$I_{\rm C} = 4A, I_{\rm B} = 1A$] -	1.4	V
Base - Emitter on Voltage (Note 1)	$V_{BE(on)}$ $I_C = 1.5A, V_{CE} = 2V$]	1.2	
Small Signal Characteristics					
Current Gain-Bandwidth Product	f _⊤	V _{CE} = 10V, I _C = 1A, f = 1MHz	2	-	MHz

Note 1 : Pulse Test : Pulse Width \leq 300 μ s, Duty Cycle \leq 2%



Dimensions	Min.	Max.	
А	10.8	11.05	
В	7.49	7.75	
С	2.41	1 2.67	
D	0.51 0.66		
F	2.92	3.18	
G	2.31	2.46	
Н	1.27	2.41	
J	0.38	0.64	
K	15.11	16.64	
M	3° TYP		
Q	3.76	4.01	
R	1.14	4 1.4	
S	0.64	0.89	
U	3.68	3.94	
V	1.02	-	

Dimensions: Millimetres

Part Number Table

Description	Part Number
Transistor, PNP, 4A, 80V, TO-126	2N5195

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