Medium Power Transistor multicomp





Description:

Medium Power Plastic PNP, TO-126, Silicon Transistor. Designed for driver circuits, switching, and amplifier applications.

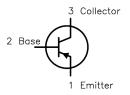
Features:

- Low Saturation Voltage: $V_{CE(sat),0.6V\,DC}$ I_C = 1A Excellent Power Dissipation Due to Thermopad Construction P_D = 30 @ T_C = 25°C

RoHS



Compliant



Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit	
Collector-Emitter Voltage	V _{CEO}	80		
Collector-Base Voltage	V _{CBO}	80	V	
Emitter-Base Voltage	V _{EBO}	5		
Continuous Collector Current	I _C	1	А	
Base Current	I _B	1		
Total Device Dissipation at T _c = 25°C Derate above 25°C	P _D	30 0.24	W mW/°C	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	-65 to +150	°C	

Electrical Characteristics (T_a = 25°C unless otherwise specified)

				Unit
V _{(BR)CEO}	I _C =100mA, I _B =0	80	-	V
I _{CEX}	V _{CE} =80V, V _{EB(off)} =1.5V	-	1	
I _{CEO}	V_{CB} =40V, I_{B} =0	-	0.5	mA
I _{CBO}	V_{EB} =80V, I_{E} =0	-	0.1	IIIA
I _{EBO}	V_{EB} =5V, I_{C} =0	-	1	
_	I _{CEX}	I_{CEX} $V_{CE} = 80V, V_{EB(off)} = 1.5V$ I_{CEO} $V_{CB} = 40V, I_{B} = 0$ I_{CBO} $V_{EB} = 80V, I_{E} = 0$	I_{CEX} $V_{CE} = 80V, V_{EB(off)} = 1.5V$ - I_{CEO} $V_{CB} = 40V, I_{B} = 0$ - I_{CBO} $V_{EB} = 80V, I_{E} = 0$ -	I_{CEX} $V_{CE} = 80V, V_{EB(off)} = 1.5V$ - 1 I_{CEO} $V_{CB} = 40V, I_{B} = 0$ - 0.5 I_{CBO} $V_{EB} = 80V, I_{E} = 0$ - 0.1

ON Characteristics (Note 1)

			40	-	-
DC Current Gain	h _{FE}	V _{CE} =1V, I _C =1,500mA	30	150	-
		V _{CE} =1V, I _C =1A	10	1	-
Collector - Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =100mA	-	0.6	
Base-Emitter Saturation Voltage	V _{BE(on)}	I _C =1A, I _B =1V	ı	1.3	V
base-Efficier Saturation voltage	V _{BE(sat)}	I _C =1A, I _B =100mA	-	1.3	

www.element14.com www.farnell.com www.newark.com



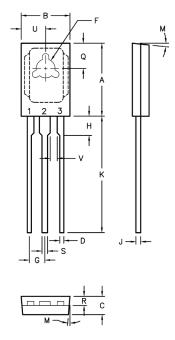
Medium Power Transistor multicomp



Electrical Characteristics (T_a = 25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Small-Signal Characteristics					
Current Gain-Bandwidth Product	f _T	V _{CE} =10V, I _C =250mA, f=1kHz	3	-	MHz
Output Capacitance	C _{obo}	V _{CB} =10V, I _E =0, f=100kHz	1	100	рF
Input Canacitance		V _{CE} =10V, I _C =1mA, f=1kHz	1	-	kΩ
Input Capacitance h _{fe}	¹¹ fe	V _{CE} =10V, I _C =10mA, f=1kHz	-	-	K12
Small-Signal Current Gain	h _{fe}	V _{CE} =10V, I _C =250mA, f=1kHz	25	-	-

Note 1. Plus Test: Pulse Width = $300\mu s$, Duty Cycle $\leq 2\%$.



Dimensions	Min.	Max.
Α	10.8	11.05
В	7.49	7.75
С	2.41	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
М	3° TYP	
Q	3.76	4.01
R	1.14	1.4
S	0.64	0.89
U	3.68	3.94
V	1.02	-

Dimensions: Millimetres

Pin Configuration:

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

Part Number Table

Description	Part Number
Transistor, PNP, 1A, 80V, TO-126	2N4920

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any windout notice and the spaces are spaces. The information supplied to be accurate but the spaces of the spaces and the spaces are spaces and the spaces. The spaces are spaces are spaces are spaces and the spaces are spaces and the spaces are spaces. The spaces are spaces are spaces are spaces and the spaces are spaces and the spaces are spaces and the spaces are spaces. The spaces are spaces are spaces are spaces are spaces and the spaces are spaces and the spaces are spaces. The spaces are spaces are spaces are spaces are spaces and the spaces are spaces and the spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces. The spaces are spaces. The spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces. The spaces are spaces are spaces are spaces are spaces are spaces are spaces. The spaces are spaces. The spac

www.element14.com www.farnell.com www.newark.com

