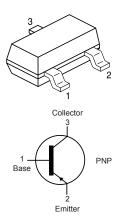
PNP General Purpose Amplifier Multicomp PRO





Features

- For general AF applications
- Complementary NPN type available BC817
- High collector current
- High current gain
- Low collector-emitter saturation voltage



Maximum Ratings

Parameter	Symbol	Value	Unit	
Collector - Base Voltage	V _{CBO}	-50	V	
Collector - Emitter Voltage	V _{CEO}	-45	V	
Emitter - Base Voltage	$V_{ m ebo}$	-5		
Collector Current Continuous	I _c	-500	mA	
Total Device Dissipation	P _{TOT}	300	mW	
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	417	°C/W	
Junction and Storage Temperature	T_{i}, T_{stg}	-65 to +150	°C	

Electrical Characteristics ($T_a = 25$ °C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Collector - Base Breakdown Voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0	-50			
Collector - Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-45			v
Emitter - Base Breakdown Voltage	$V_{(BR)EBO}$	$I_{E}^{-1}\mu A, I_{C}^{-1}$	-5			
Collector Cut-off Current	I _{CBO}	V _{CB} =-25V, I _E =0			-0.1	μΑ
Emitter Cut-off Current	I _{EBO}	V_{CE} =-4V, I_{E} =0			-0.1	μΑ
DC Current Gain BC801 BC801 BC801 BC801	7-25 h _{FE}	V _{CE} =-1V, I _C =-100mA	100 100 160 250	160 250 350	600 250 400 600	
DC Current Gain BC801 BC801 BC801 BC801	7-25 N _{FE}	V _{CE} =-1V, I _C =-300mA	40 60 100 170			
Collector - Emitter Saturation Voltage	V _{CE(sat)}	I _c =-500mA, I _B =-50mA			-0.7	V
Base - Emitter Saturation Voltage	V _{BE(sat)}	I _C =-500mA, I _B =-50mA			-1.2	
Output Capacitance	C _{obo}	V _{CB} =-10V, f=1MHz			10	pF
Transition Frequency	f _T	V _{CE} =-5V, I _C =-10mA f=100MHz		200		MHz

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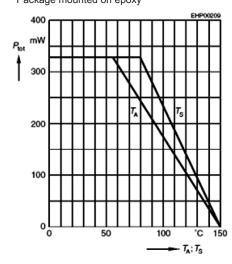
PNP General Purpose Amplifier Multicomp PRO



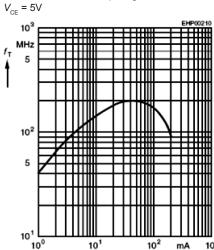
Typical Characteristics: T_a=25°C unless otherwise specified

Ratings & Characteristic Curves

Total power dissipation $P_{\text{tot}} = f(T_A^*; T_S)$ *Package mounted on epoxy

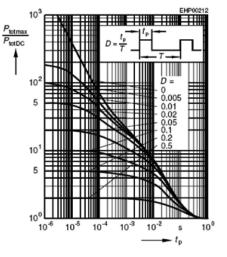


Transition frequency $f_{T} = f(I_{C})$



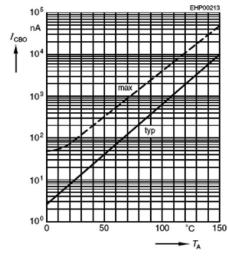
Permissible pulse load





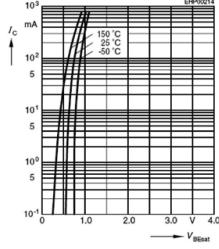
Collector cutoff current $I_{CBO} = f(T_A)$

 $V_{\rm CBO} = 25 \rm V$



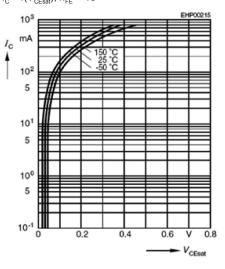
Base-emitter saturation voltage

$$I_{\rm C} = f(V_{\rm BEsat}), h_{\rm FE} = 10$$



Collector-emitter saturation voltage

$$I_{\rm C} = f(V_{\rm CEsat}), h_{\rm FE} = 10$$

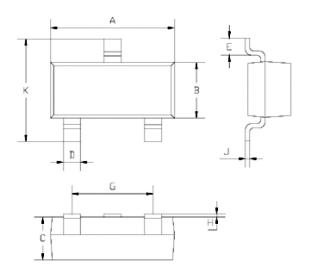


PNP General Purpose Amplifier Multicomp PRO



Package Outline

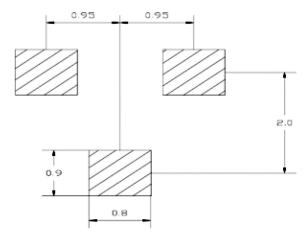
Plastic surface mounted package



Dimensions	Min.	Max.	
A	2.5	2.95	
В	1.25	1.35	
С	1 Typical		
D	0.4 Typical		
E	0.35	0.48	
G	1.85	1.95	
Н	0.02	0.1	
J	0.1 Typical		
K	2.35	2.45	

Dimensions: Millimetres

Soldering Footprint



Dimensions: Millimetres

Part Number Table

Description	Part Number		
Transistor, PNP, 45V, 0.5A, SOT23	BC807		
	BC807-16		
	BC807-25		
	BC807-40		

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