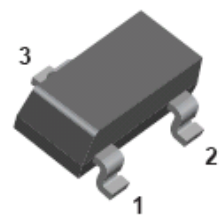
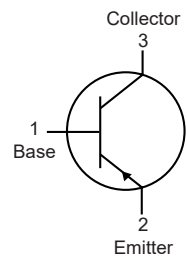
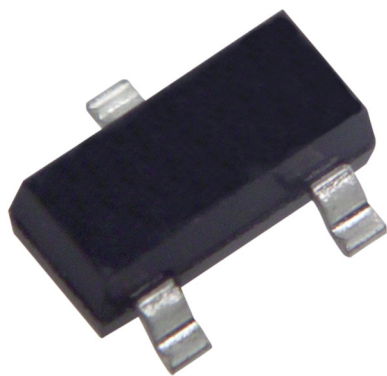


PNP General Purpose Amplifier

multicomp^{PRO}

RoHS
Compliant



SOT-23

Features:

- Ideally suited for automatic insertion
- Complementary NPN type available BC817
- Epitaxial planar die construction

Applications:

- This device is designed for general purpose amplifier and switching applications at currents to 1A

Maximum Rating at T_a=25°C unless otherwise specified:

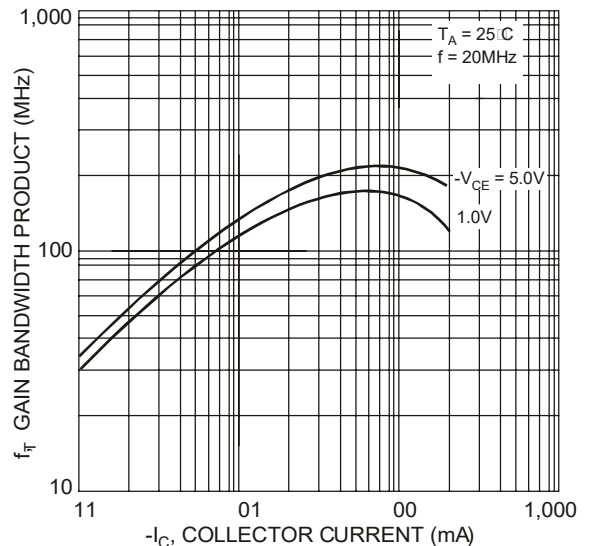
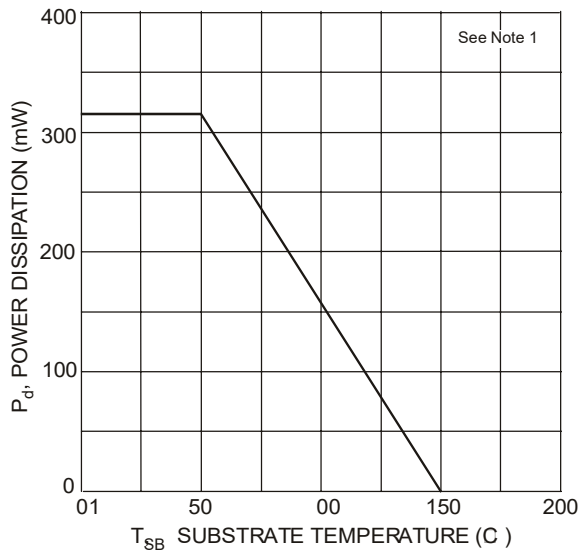
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-45	
Emitter-Base Voltage	V _{EBO}	-5	
Collector Current -Continuous	I _C	-500	mA
Total Device Dissipation	P _D	300	mW
Thermal Resistance Junction to Ambient	R _{θJA}	417	°C/W
Junction and Storage Temperature	T _J , T _{stg}	-55 to+150	°C

PNP General Purpose Amplifier **multicomp**PRO

Electrical Characteristics at $T_a=25^\circ\text{C}$ unless otherwise specified:

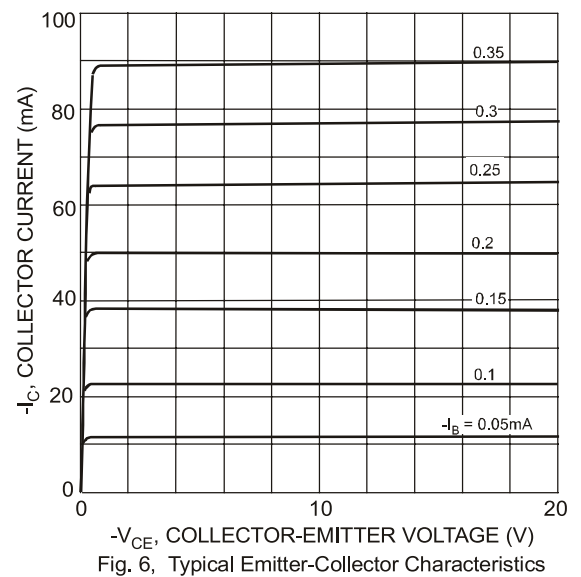
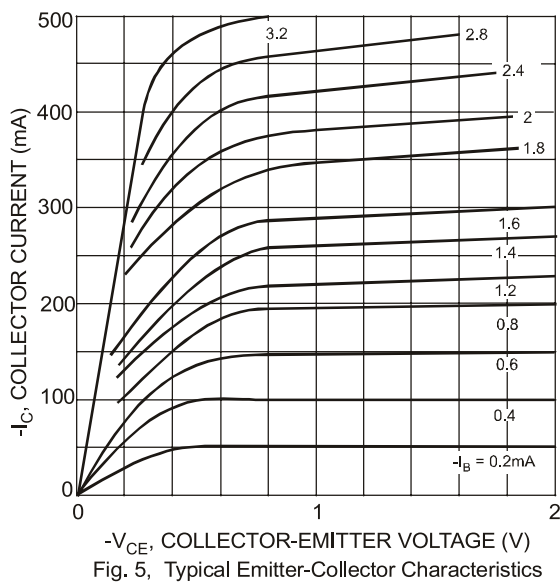
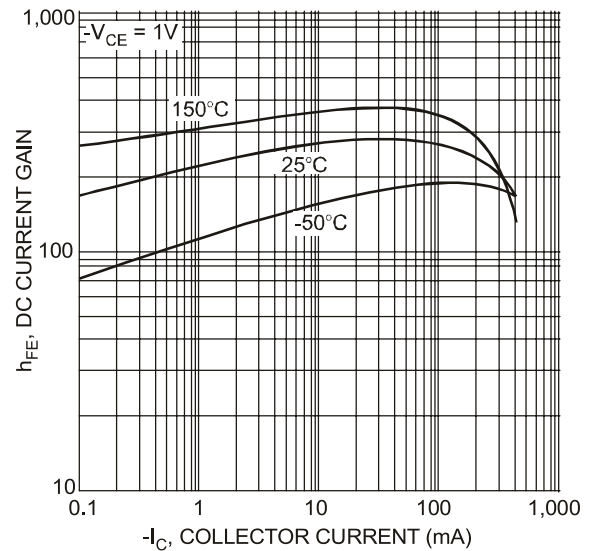
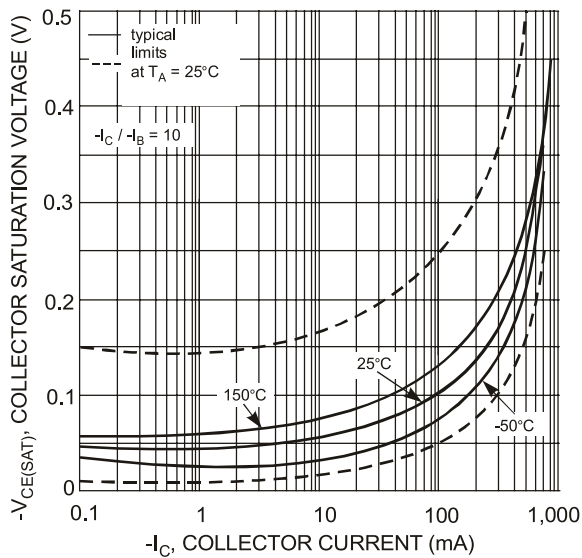
Parameter	Symbol	Test conditions	Min.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu\text{A}$ $I_E = 0$	-50		V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10\text{mA}$ $I_B = 0$	-45		
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -1\mu\text{A}$ $I_C = 0$	-5		μA
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -45\text{V}$ $I_E = 0$		-0.1	
Collector Cut-Off Current	I_{CEO}	$V_{CE} = -40\text{V}$ $I_B = 0$		-0.2	
Emitter Cut-Off Current	I_{EBO}	$V_{CE} = -4\text{V}$ $I_C = 0$		-0.1	
DC Current Gain	h_{FE}	$V_{CE} = -1\text{V}$ $I_C = -100\text{mA}$	100	250	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}$ $I_B = -50\text{mA}$		-0.7	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -500\text{mA}$ $I_B = -50\text{mA}$		-1.2	
Output Capacitance	C_{obo}	$V_{CB} = -10\text{V}$, $f = 1\text{MHz}$		10	pF
Transition Frequency	f_T	$V_{CE} = -5\text{V}$, $I_C = -10\text{mA}$ $f = 100\text{MHz}$	100		MHz

Typical Characteristics at $T_a=25^\circ\text{C}$ unless otherwise specified:



PNP General Purpose Amplifier **multicomp**PRO

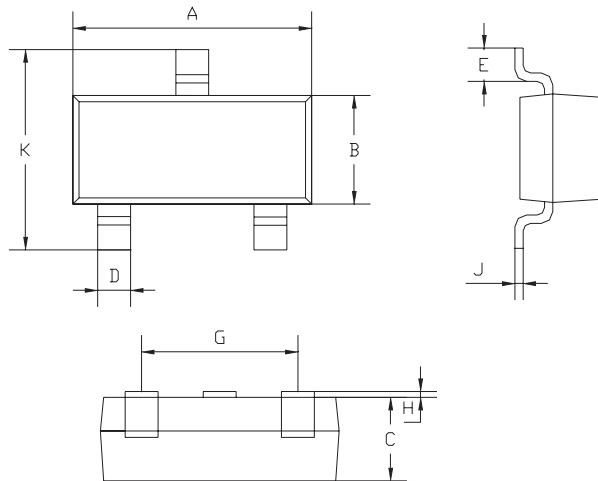
Typical Characteristics at $T_A = 25^\circ\text{C}$ unless otherwise specified:



PNP General Purpose Amplifier **multicomp**PRO

Package Outline:

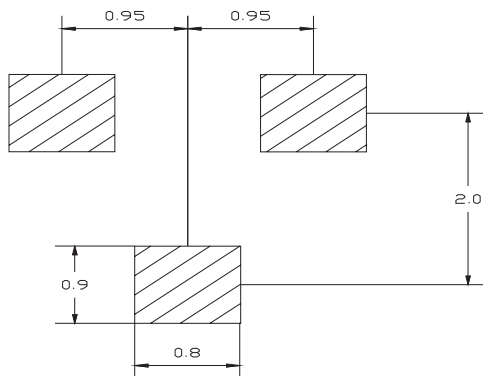
Plastic surface mounted package



SOT-23		
Dim.	Min.	Max.
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45

Dimensions : Millimetres

Soldering Footprint:



Dimensions : Millimetres

Device	Package	Shipping
BC807-16-7-F	SOT-23	3,000/Tape&Reel

Part Number Table

Description	Part Number
Transistor, PNP, -45V, -500mA	BC807-16-7-F

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