

BC808-16 THRU BC808-40

SOT-23

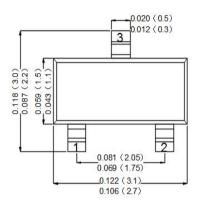
TRANSISTOR (PNP)

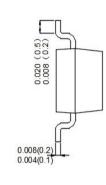
Features

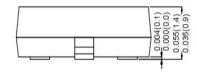
- Ideally Suited for Automatic Insertion
- Epitaxial Planar Die Construction
- For Switching, AF Driver and Amplifier Applications
- Complementary NPN Types Available (BC818)

Mechanical Data

- Case:Molded Plastic.SOT-23
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable perMIL-STD-750,Method-2026.
- Marking: BC808-16:5E; BC808-25:5F; BC808-40:5G
- Mounting Position : Any.
- Equivalent Circuit:







Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Units V	
Collector-Base Voltage	V _{CBO}	-30		
Collector-Emitter Voltage	V _{CEO}	-25	V	
Emitter-Base Voltage	V _{EBO}	-5	V	
Collector Current -Continuous	Ic	-0.5	А	
Collector Power Dissipation	Pc	0.3	W	
Junction Temperature	Tj	150	℃	
Storage Temperature	T _{stg}	-55-150	°C	

version:00 1 of 4



BC808-16 THRU BC808-40

TRANSISTOR (PNP)

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{CBO}	I _C = -10μA, I _E =0	-30		V
Collector-emitter breakdown voltage	V _{CEO}	I _C = -10mA, I _B =0	-25		V
Emitter-base breakdown voltage	V _{EBO}	I _E = -1μΑ, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -45V, I _E =0		-0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CE} = -40V, I _B =0		-0.2	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = -4 V, I _C =0		-0.1	μA
DC current gain 808-16			100	250	
808-25	h _{FE(1)}	V _{CE} = -1V, I _C = -100mA 16		400	
808-40	()		250	600	
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	V
Transition frequency	f⊤	V _{CE} = -5V, I _C = -10mA f=100MHz	100		MHz

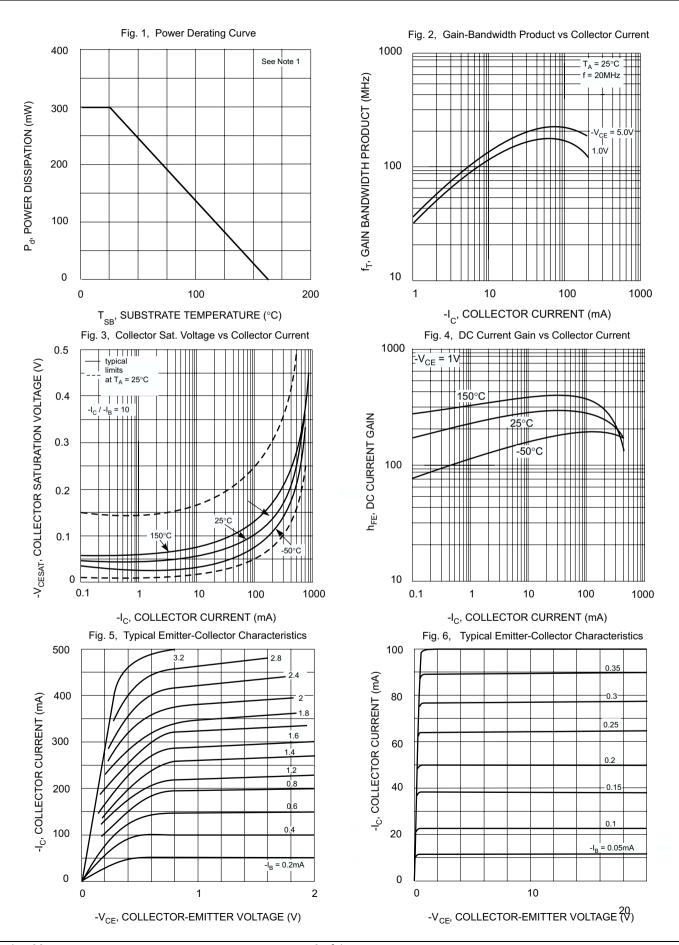
version:00 2 of 4





TRANSISTOR (PNP)

Rating And Characteristic Curves



version:00 3 of 4



BC808-16 THRU BC808-40

TRANSISTOR (PNP)

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without from XINNUO.
- · XINNUO reserves the right to make changes to this document and its products and specifications.
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown her are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.

version:00 4 of 4