



PNP GENERAL PURPOSE TRANSISTORS

VOLTAGE 45 Volt POWER 330 mWatt

FEATURES

- · General purpose amplifier applications
- · PNP epitaxial silicon, planar design
- Collector current I_c = 500mA
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-23, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- · Apporx. Weight: 0.0003 ounce, 0.0084 gram
- Device Marking : BC807-16 : 7A

BC807-25 : 7B BC807-40 : 7C

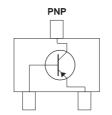
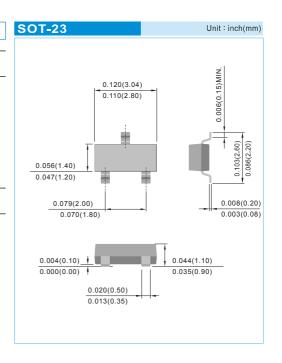


Fig.35



MECHANICAL DATA

PARAMETER		Value	UNIT
Collector-Emitter Voltage	VŒ	-45	V
Collector-Base Voltage	V _{OBO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	٧
Collector Current - Continuous	Ic	-500	mA
Peak Collector Current	I _{CM}	-1000	mA
Total Power Dissipation (Note 1)	P _{TOT}	330	mW
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to 150	°C

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	Value	UNIT
Thermal Resistance Junction to Ambient (Note 1)	R _{eJA}	375	°CW
Thermal Resistance Junction to Lead	R _{eJL}	220	°CW

NOTES: 1. Transistor mounted on FR-5 board minimum pad mounting conditions.

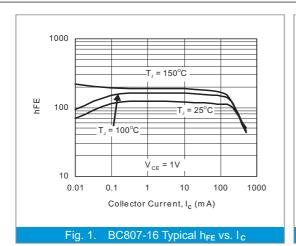


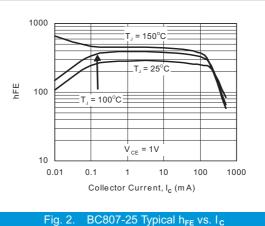


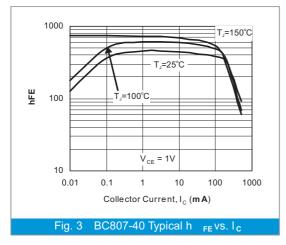
ELECTRICAL CHARACTERISTICS(TJ=25°C,unless otherwise notes)

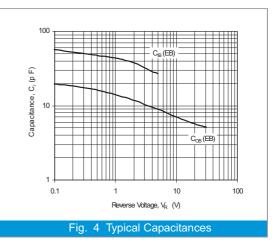
PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0)		V _(BR) CEO	-45	-	-	V
Collector-Base Breakdown Voltage (V _{EB} =0V, I _C =-10μA)		V _(BR) CBO	-50	-	-	V
Emitter-Base Breakdown Voltage (I _E =-1μA,Ic=0)		V _(BR) EBO	-5.0	-	-	V
Emitter-Base Cutoff Current (V _{EB} =-5V)		I _{EBO}	-	-	-100	nA
Collector-Base Cutoff Current (V _{CB} =-20V,I _E =0)	T _J =25°C	I _{CBO}	-		-100	nA
	T _J =150 ^O C		ı	-	-5.0	μΑ
DC Current Gain (lc=-100mA,V _{CE} =-1V)	BC807-16 BC807-25 BC807-40	h _{FE}	100 160 250	- - -	250 400 600	-
$(lc=-500mA, V_{CE}=-1V)$			40	-	-	
Collector-Emitter Saturation Voltage (lc=-500mA ,l _B =-50mA)		V _{CE(SAT)}	-	-	-0.7	V
Base-Emitte Voltage (k=-500mA,V _{CE} =-1.0V)		V _{BE(ON)}	-	-	-1.2	V
Collector-Base Capacitance (V _{CB} =-10v,I _E =0,f=1MHz)		C _{CBO}	-	7.0	-	pF
Current Gain-Bandwidth Product (Ic=-10mA,V _{CE} =-5V,f=100MHz)		f⊤	100	-	-	MHz

ELECTRICAL CHARACTERISTICS





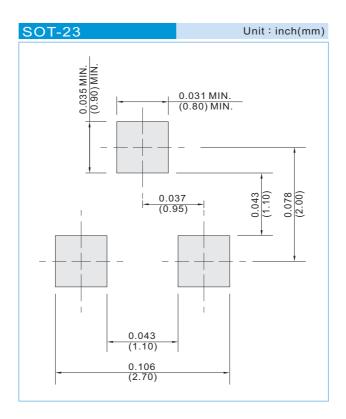








MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

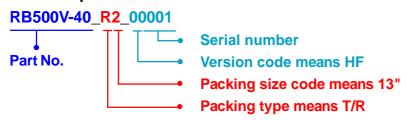




Part No_packing code_Version

BC807-16_R1_00001 BC807-16_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	Х			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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