



BC807-16W SERIES PNP GENERAL PURPOSE TRANSISTORS SOT-323 Unit : inch(mm) POWER 300 mWatt VOLTAGE 45 Volt **FEATURES** 0.004(0.10)MIN · General purpose amplifier applications 0.087(2.20) • PNP epitaxial silicon, planar design 0.087(2.20) • Collector current I_c = 500mA • Lead free in compliance with EU RoHS 2011/65/EU directive • Green molding compound as per IEC61249 Std. . 0.054(1.35) 0.045(1.15) (Halogen Free) 0.006(0.15) 0.056(1.40) **MECHANICAL DATA** 0.044(1.10) · Case: SOT-323, Plastic 0.004(0.10)MAX • Terminals: Solderable per MIL-STD-750, Method 2026 0.016(0.40) PNP • Apporx. Weight: 0.0001 ounce, 0.005 gram • Device Marking : BC807-16W : 7S BC807-25W : 7V BC807-40W : 7W Fig.35

MECHANICAL DATA

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Emitter Voltage	V _{CEO}	-45	V
Collector-Base Voltage	V _{OBO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current - Continuous	Ι _C	-500	mA
Peak Collector Current	I _{OM}	-1000	mA
Base Current - Peak	I _{BM}	-200	mA
Total Power Dissipation (Note 1)	P _{TOT}	300	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}	420	°C/W

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





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

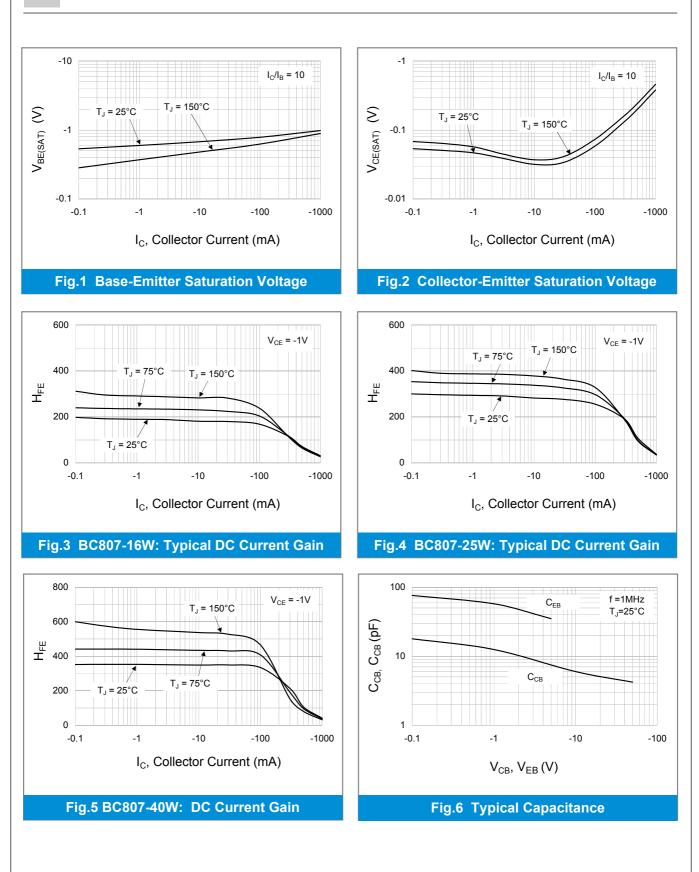
PARAMETER		SYMBOL	MIN.	TYP.	MAX.	UNIT
Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0)		V _(BR) CEO	-45	-	-	V
Collector-Base Breakdown Voltage (V _{EB} =0V, I_C =-10µA)		V _(BR) CBO	-50	-	-	V
Emitter-Base Breakdown Voltage (I _E =-1µA,Ic=0)		V _(BR) EBO	-5.0	-	-	V
Emitter-Base Cutoff Current (V _{EB} =-5V)		I _{EBO}	-	-	-100	nA
Collector-Base Cutoff Current (V _{CB} =-20V,I _E =0)	T _J =25 ^o C T _J =150 ^o C	I _{CBO}	-	-	-100 -5.0	nA μA
DC Current Gain (Ic=-100mA,V _{CE} =-1V)	BC807-16W BC807-25W BC807-40W	h _{FE}	100 160 250	- - -	250 400 600	-
(Ic=-500mA,V _{CE} =-1V)			40	-	-	
Collector-Emitter Saturation Voltage (Ic=-500mA ,IB=-50mA)		V _{CE(SAT)}	-	-	-0.7	V
Base-Emitte Voltage (Ic=-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







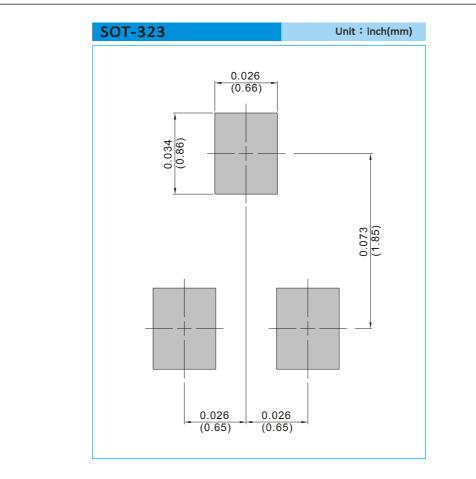
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MOUNTING PAD LAYOUT



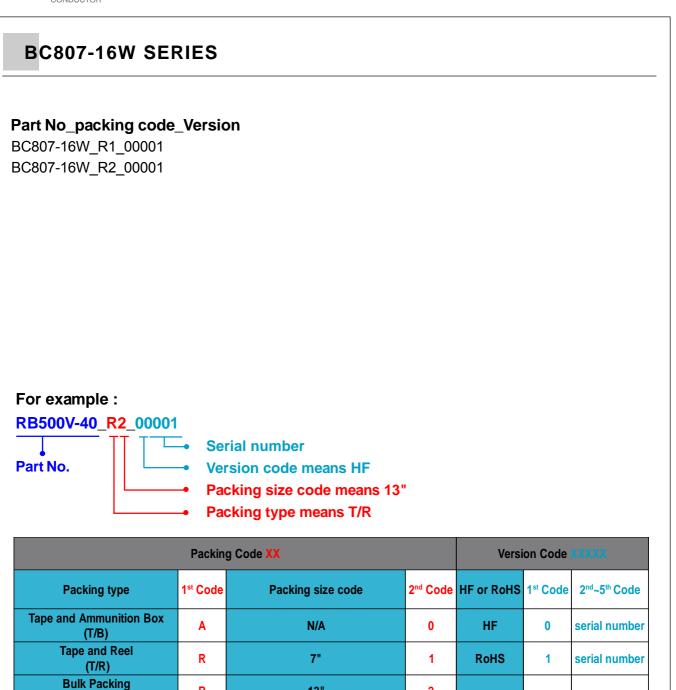
ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

2

Х

Υ

U

D

В

т

S

L

F

(B/P) **Tube Packing**

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING





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