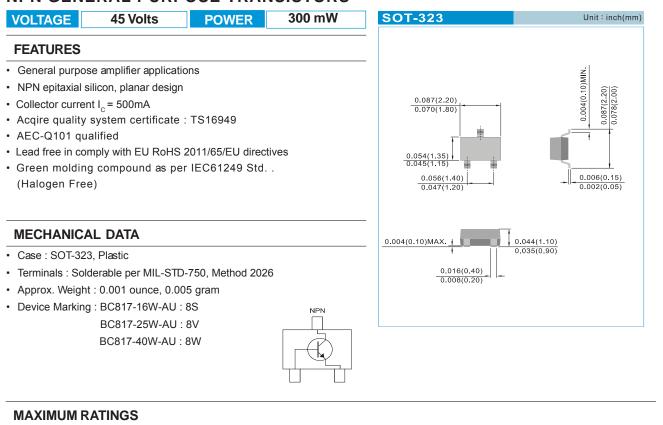


BC817-16W-AU SERIES

NPN GENERAL PURPOSE TRANSISTORS



PARAMETER		Value	UNIT
Collector-Emitter Voltage	V _{CEO}	45	V
Collector-Base Voltage	V _{CBO}	50	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Collector Current - Continuous	lc	500	mA
Total Power Dissipation (NOTE)	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)		420	∘C / W

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



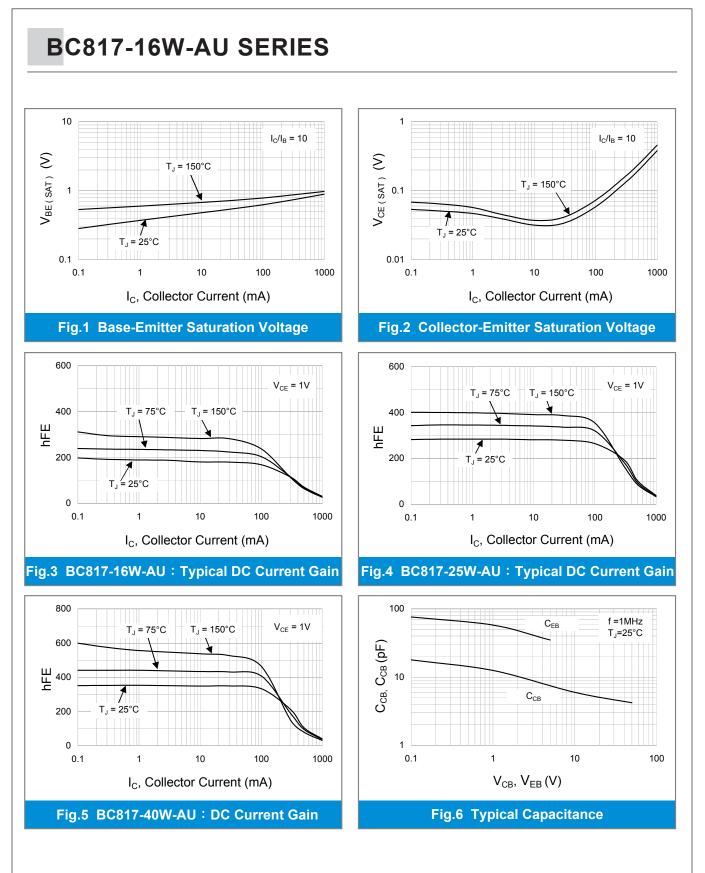


BC817-16W-AU SERIES

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

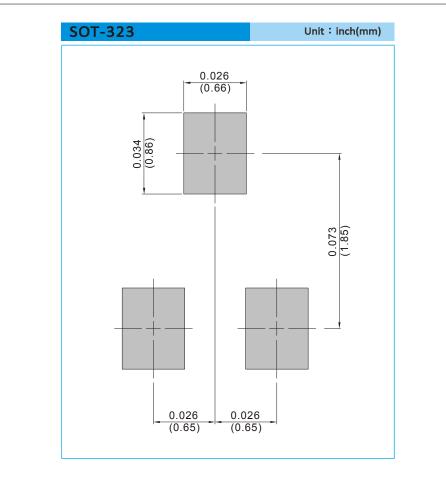
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Collector-Emitter Breakdown Voltage (Ic=10mA, IB=0)		V _(BR) CEO	45	-	-	V
Collector-Base Breakdown Voltage (V_{EB} =0V, lc=10 μ	V _(BR) CBO	50	-	-	V	
Emitter-Base Breakdown Voltage ($I_{E}\!\!=\!\!1\mu A,$ Ic=0)	V _(BR) EBO	5	-	-	V	
Emitter-Base Cutoff Current (V_{EB} =5V)	I _{EBO}	-	-	100	nA	
Collector-Base Cutoff Current (V_{CB} =20V, I_E =0) T _J =25°C T _J =150°C		ICBO	- -		100 5	nA μA
DC Current Gain (k=100mA, V_{CE}=1V)	BC817-16W-AU BC817-25W-AU BC817-40W-AU	h _{FE}	100 160 250	- - -	250 400 600	- -
DC Current Gain (lc=500mA, V _{CE} =1V)			40	-	-	-
Collector-Emitter Saturation Voltage (lc=500mA, l _B =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	-	pF
Current Gain-Bandwidth Product (lc=10mA, V_{C\!E}\!=\!5V, f\!=\!100MHz)		f _T	100	-	-	MHz







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

BC817-16W-AU_R1_000A1 BC817-16W-AU_R2_000A1

For example :

RB500V-40_R2_00001

Part No.

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

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)	Α	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	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



BC817-16W-AU SERIES

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein 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 Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.