# NPN General Purpose Transistor BC847B / BC847C

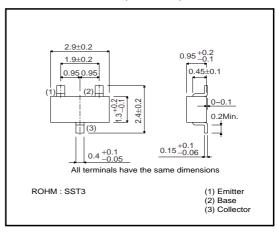
# Features

- 1) BVCEO < 45V (IC=1mA)
- 2) Complements the BC857B.

#### •Package, marking, and Packaging specifications

Part No.	BC847B	BC847C
Packaging type	SST3	SST3
Marking	G1F	G1G
Code	T116	T116
Basic ordering unit (pieces)	3000	3000

#### • External dimensions (Units : mm)



## ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Collector-base voltage	Vсво	50	V	
Collector-emitter voltage	Vceo	45	V	
Emitter-base voltage	Vebo	6	V	
Collector current	lc	0.1	A	
Collector power dissipation	Pc	0.2	w *	
	FC	0.35		
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55~+150	°C	

\* When mounted on a 7×5×0.6mm ceramic board

#### •Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	50	-	-	V	Ic=50μA
Collector-emitter breakdown voltage	BVCEO	45	-	-	V	Ic=1mA
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=50μΑ
Collector cutoff current	Ісво	-	-	15	nA	V <sub>CB</sub> =30V
		_	-	5	μA	Vсв=30V, Ta=150°С
Collector-emitter saturation voltage	VCE(sat)	-	-	0.25	V	Ic/IB=10mA/0.5mA
		_	-	0.6		Ic/IB=100mA/5mA
Base-emitter saturation voltage	VBE(on)	0.58	-	0.77	V	Vce/lc=5V/10mA
DC current transfer ratio	hfe	200	-	450	-	Vce/lc=5V/2mA BC847B
		420	-	800	-	Vce/Ic=5V/2mA BC847C
Transition frequency	fт	-	200	-	MHz	Vce=5V, Ie=-20mA, f=100MHz
Collector output capacitance	Cob	-	3	-	pF	Vcb=-10V, Ie=0, f=1MHz
Emitter input capacitance	Cib	-	8	-	pF	VEB=0.5V, Ic=0, f=1MHz

#### Electrical characteristic curves

The electrical characteristic curves for these products are the same as those of UMT222A, SST222A, MMST2222A and PN2222A.



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