NPN General Purpose Transistor BC848BW / BC848B / BC848C

Features

- 1) BVCEO minimum is 30V (IC=1mA)
- 2) Complements the BC858B / BC858BW.

•External dimensions (Units : mm)



Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Symbol Limits		
Collector-base voltage	Vсво	30	V	
Collector-emitter voltage	VCEO	30	V	
Emitter-base voltage	Vebo	5	V	
Collector current	lc	0.1	Α	
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	30	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage	BVCEO	30	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВУево	5	-	-	V	Ιε=50μΑ	
Collector cutoff current	Ісво	-	-	15	۵	Vcb=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/Ic=5V/10mA	
DC current transfer ratio	hfe	200	_	450		Vce/Ic=5V/2mA (BC848B/BW)	
		420	-	800	-	Vce/Ic=5V/2mA (BC848C)	
Transition frequency	f⊤	-	200	-	MHz	Vce=5V, Ie=-20mA, f=100MHz	
Collector output capacitance	Cob	-	3	-	pF	Vcb=10V, IE=0, f=1MHz	
Collector output capacitance	Cib	_	8	-	pF	Veb=0.5V, Ie=0, f=1MHz	
						(SPEC-C22)	



Transistors

Packaging specifications

Part No.	BC848BW	BC848B	BC848C
Packaging type	UMT3	SST3	SST3
Marking	G1K	G1K	G1L
Code	T106	T116	T116
Basic ordering unit (pieces)	3000	3000	3000

•Electrical characteristic curves





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1000

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Transistors



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Transistors



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