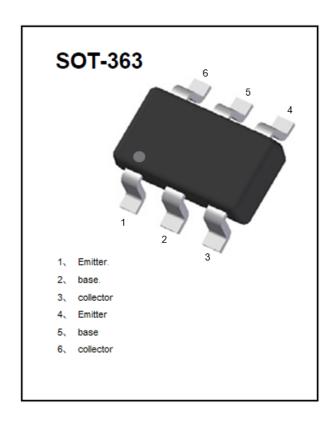






Dual NPN Small Signal Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- NPN

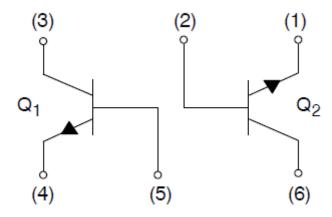
Mechanical Data

• Package: SOT-363

• **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Marking:1C

■Equivalent circuit





BC847BS

■Maximum Ratings (Ta=25°C Unless otherwise specified) Q1&Q2-NPN

Q I G Q E I II I I I						
Item	Symbol	Unit	Conditions	Value		
Collector-Base Voltage	VCBO	V	IC=10µA,IE=0	50		
Collector-Emitter Voltage	VCEO	V	IC =10mA,IB=0	45		
Emitter-Base Voltage	VEBO	V	IE=10μA,IC=0	6		
Collector Current -Continuous	IC	mA		100		
Total Device Dissipation	PC	mW		300		
Junction Temperature	Tj	°C		150		
Storage Temperature	TSTG	°C		-55 to +150		

■Electrical Characteristics (Ta=25°C unless otherwise specified) Q1&Q2-NPN

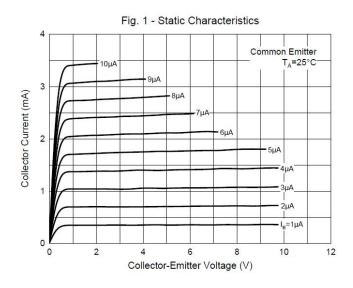
QT&QZ-NPN							
Item	Symbol	Unit	Conditions	Min	TYP	Max	
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	IC=10μA,IE=0	50			
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	IC =10mA,IB=0	45			
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	IE=10μA,IC=0	6			
Collector cut-off current	I _{CBO}	nA	VCB=30V,IB=0			15	
Collector cut-off current	I _{EBO}	nA	VEB=5V, IC=0			100	
DC current gain	h _{FE}		VCE=5V,IC=2mA	200		450	
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=10mA,IB=0.5mA			0.25	
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=100mA,IB=5mA			0.65	
Base-emitter saturation voltage	V _{BE(sat)*}	V	IC=10mA,IB=0.5mA		0.7		
Base-emitter saturation voltage	V _{BE(sat)*}	V	IC=100mA,IB=5mA		0.9		
Base-emitter Voltage	VBE	V	VCE=5V,IC=2mA	0.58	0.665	0.7	
Transition frequency	Ft	MHz	VCE=5V,IC=10mA,f=100MHz		200		

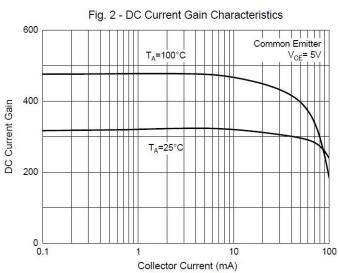
■ Ordering Information (Example)

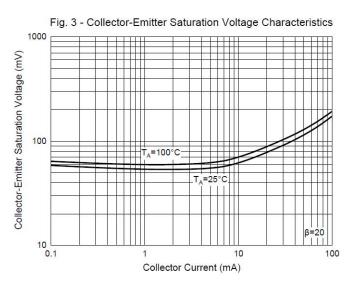
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC847BS	F2	Approximate 0.009g	3000	30000	120000	7" reel

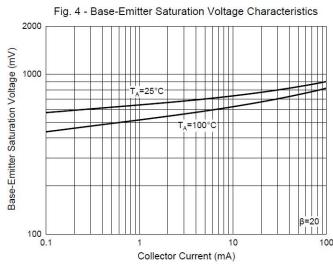


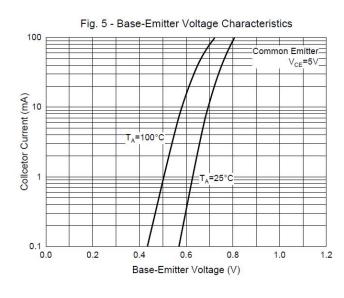
■ Characteristics (Typical) Q1&Q2-NPN

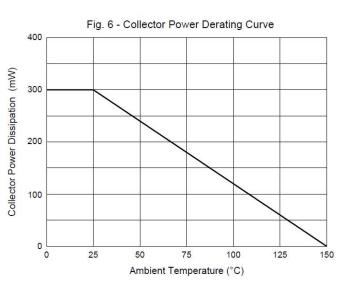






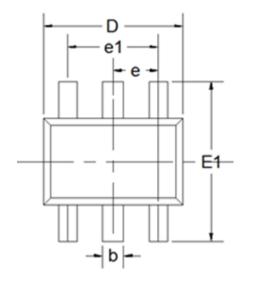




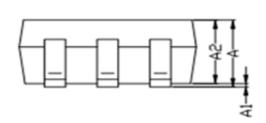


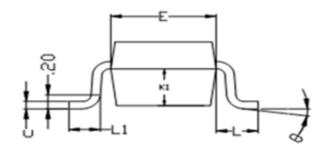


■SOT-363 Package Outline Dimensions

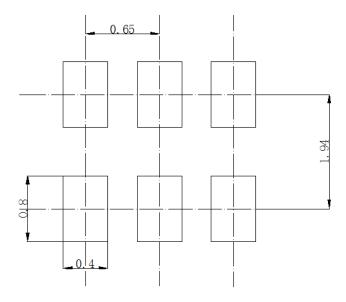


DIMENSIONS						
		HES	MM			
DIM	MIN	MAX	MIN	MAX		
A	0.035	0.043	0. 9	1.1		
A1	0	0.004	0	0. 1		
A2	0.035	0.039	0.9	1		
Ъ	0.006	0.014	0. 15	0.35		
c	0.002	0.01	0.05	0. 25		
D	0.071	0.087	1.8	2. 2		
Ε	0.045	0.053	1. 15	1.35		
E1	0.085	0.096	2. 15	2. 45		
6	0. 02	6Тур	0.65Typ			
e1	0.047	0.055	1.2	1.4		
L	0. 02	1Typ	0. 525Typ			
L1	0.01	0.018	0. 26	0.46		
9	0°	8°	0°	8°		





■SOT-363 Suggested Pad Layout



Unit: mm



BC847BS

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