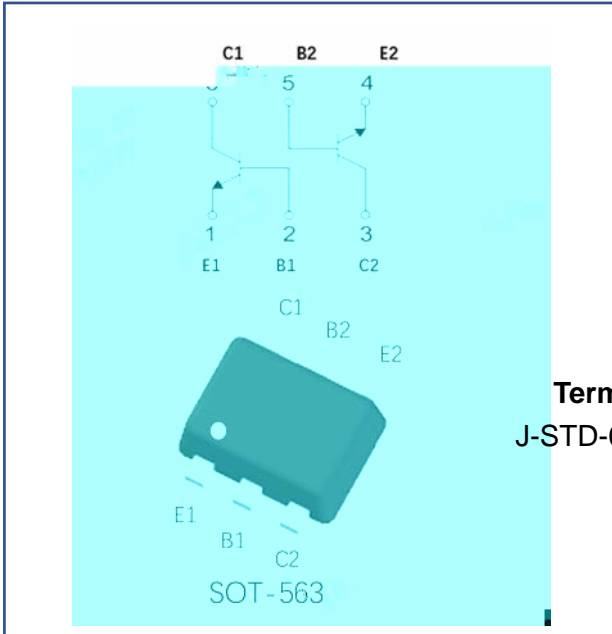


Dual NPN Small Signal Transistor



Features

- Moisture sensitivity level 1
- Halogen free and RoHS compliant
- Surface mount package ideally suited for automatic Insertion

Application

Signal

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

Maximum Ratings ($T_A=25$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Device marking code				K4
Emitter-base voltage	V_{EBO}	V	$I_E=10\mu A, I_C=0$	6
Collector current	I_C	mA		100
Power dissipation	P_D	mW		150
Junction temperature	T_J			-55 to +150
Storage temperature	T_{STG}			-55 to +150



BC847BV

RoHS
COMPLIANT

Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	$I_C=10\mu A, I_E=0$	50		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	$I_C=10mA, I_B=0$	45		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	$I_E=10\mu A, I_C=0$	6		
Collector cut-off current	I_{CBO}	nA	$V_{CB}=30V, I_B=0$			15
Emitter-base cutoff current	I_{EBO}	nA	$V_{EB}=5V, I_C=0$			100
DC current gain	h_{FE}		$V_{CE}=5V, I_C=2mA$	200		450
Collector-emitter saturation voltage	$V_{CE(sat)1}$	V	$I_C=10mA, I_B=0.5mA$			0.1
	$V_{CE(sat)2}$	V	$I_C=100mA, I_B=5mA$			0.3
Base-emitter saturation voltage	$V_{BE(sat)1}$	V	$I_C=10mA, I_B=0.5mA$		0.7	
	$V_{BE(sat)2}$	V	$I_C=100mA, I_B=5mA$		0.9	
Base-emitter voltage	V_{BE1}	V	$V_{CE}=5V, I_C=2mA$	0.58	0.66	0.7
	V_{BE2}	V	$V_{CE}=5V, I_C=10mA$			0.77
Transition frequency	f_T	MHz	$V_{CE}=5V, I_C=10mA, f=100MHz$	100		

Preferred P/N	code	unit weight(g)	package(pcs)	quantity(pcs)
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