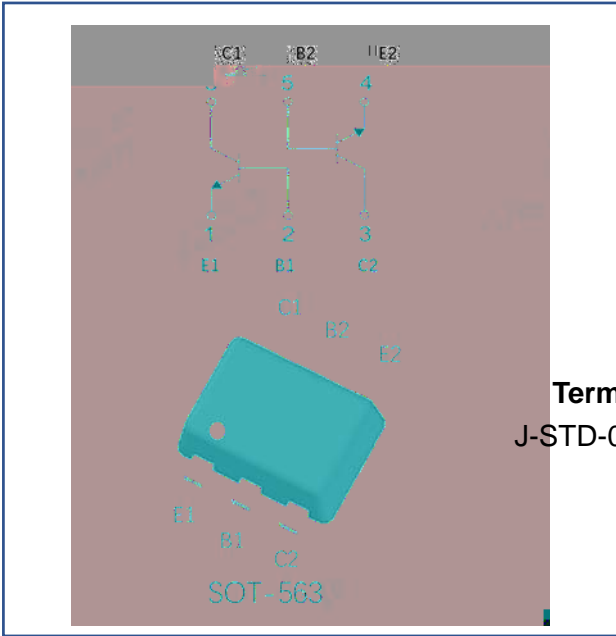




## Dual NPN Small Signal Transistor



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

**Application**  $\hat{A}$   
S fl fl  
Tin plated leads, solderable per J-STD-002 and JESD22-B102

### Maximum Ratings ( $T_a=25$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
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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		





# BC847BV

RoHS  
COMPLIANT

Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton
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