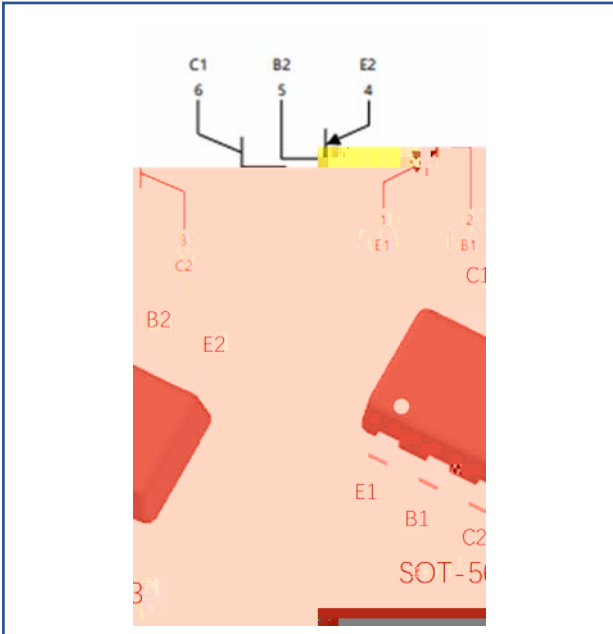


## Dual PNP Small Signal Transistor



### Features

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

### Application

- z Signal amplification
- z Switching circuit

### Mechanical data

- z **Package** SOT-563
- z **Terminals** Tin plated leads, solderable per J-STD-002 and JESD22-B102

### Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Device marking code				K5V
Collector-base voltage	V <sub>CB0</sub>	V	I <sub>C</sub> =-10uA, I <sub>E</sub> =0	-50
Collector-emitter voltage	V <sub>CE0</sub>	V	I <sub>C</sub> =-10mA, I <sub>B</sub> =0	-45
Emitter-base voltage	V <sub>EB0</sub>	V	I <sub>E</sub> =-1uA, I <sub>C</sub> =0	-5
Collector current	I <sub>C</sub>	mA		-100
Power dissipation	P <sub>D</sub>	mW		150
Junction temperature	T <sub>J</sub>	-		-55 to +150
Storage temperature	T <sub>STG</sub>	-		-55 to +150



# BC857BV

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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	$I_E=-1\mu A, I_C=0$	-5		
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	$h_{FE}$		$V_{CE}=-5V, I_C=-2mA$	220		475
Collector-emitter saturation voltage	$V_{CE(sat)1}$	V	$I_C=-10mA, I_B=-0.5mA$			-0.1
	$V_{CE(sat)2}$	V	$I_C=-100mA, I_B=-5mA$			-0.4
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	$V_{CE}=-5V, I_E=-2mA$	-0.6		-0.75
	$V_{BE2}$	V	$V_{CE}=-5V, I_C=-10mA$			-0.82 $\pm$



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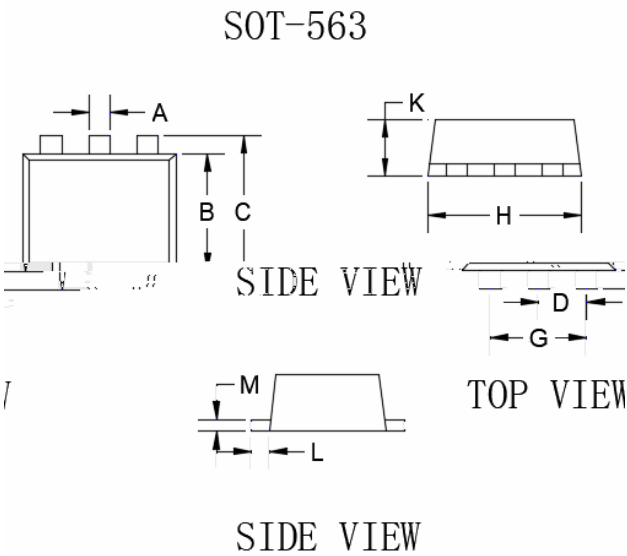
# BC857BV

RoHS  
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## Ordering Information

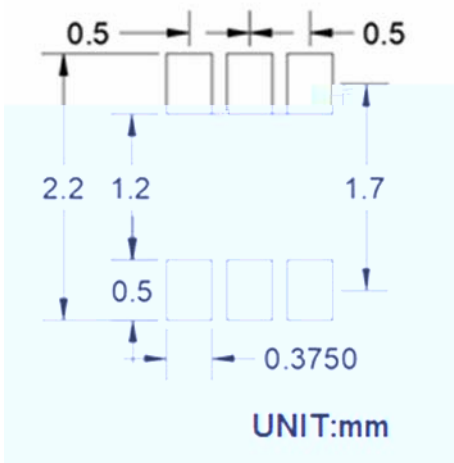
Preferred P/N	Packing code	Unit weight(g)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
BC857BV	F2	Approximate 0.0035	3000	30000	120000	7" reel

## Outline Dimensions



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.006	0.011	0.150	0.300
B	0.043	0.051	1.100	1.300
C	0.059	0.067	1.500	1.700
D	0.016	0.024	0.400	0.600
E	0.005	0.005	0.127	0.127
F	0.009	0.009	0.229	0.229
G	0.020	0.020	0.508	0.508
H	0.004	0.011	0.102	0.279
I	0.004	0.007	0.102	0.180

## Suggested Pad Layout





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