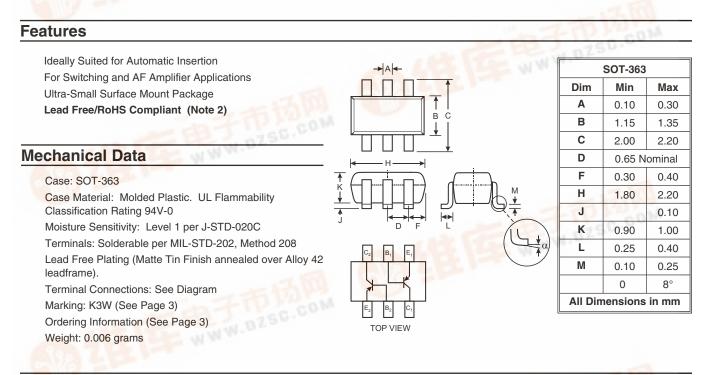
### 查询BC857BS-7-F供应商

#### 专业PCB打样工厂,24小时加急出货 捷多邦,

**BC857BS** 



### DUAL PNP SURFACE MOUNT SMALL SIGNAL TRANSISTOR



Pb

# Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-50	V
Collector-Emitter Voltage	VCEO	-45	V
Emitter-Base Voltage	V <sub>EBO</sub>	-5.0	V
Collector Current (Note 1)	Ic	-100	mA
Peak Collector Current (Note 1)	I <sub>CM</sub>	-200	mA
Peak Base Current (Note 1)	IBM	-200	mA
Power Dissipation at T <sub>SB</sub> = 50°C (Note 1)	Pd	200	mW
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-55 to +125	°C

WWW.DZSC.COM Notes: 1. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

2. No purposefully added lead.





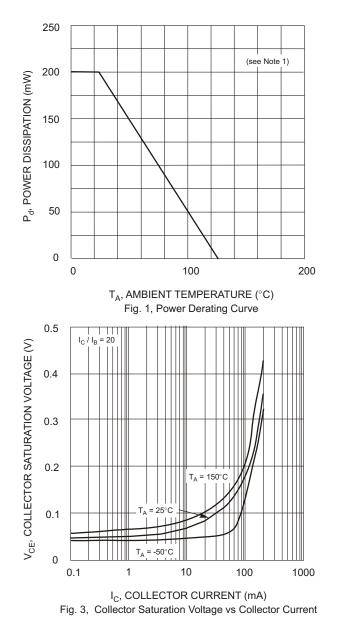
# Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

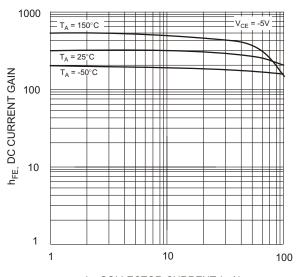
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
DC Current Gain (Note 3)	h <sub>FE</sub>	220	—	475	_	$V_{CE} = -5.0V, I_{C} = -2.0mA$
Thermal Resistance, Junction to Ambient Air (Note 1)	R ja	—	_	625	°C/W	Note 1
Collector-Emitter Saturation Voltage (Note 3)		—		-100 -400	mV	$I_{C} = -10mA, I_{B} = -0.5mA$ $I_{C} = -100mA, I_{B} = -5.0mA$
Base-Emitter Saturation Voltage (Note 3)	V <sub>BE(SAT)</sub>	_	-700	_	mV	$I_{\rm C}$ = -10mA, $I_{\rm B}$ = -0.5mA
Base-Emitter Voltage (Note 3)	V <sub>BE</sub>	-580	-665	-750	mV	$V_{CE} = -5.0V, I_{C} = -2.0mA$
Collector Cutoff Current	I <sub>СВО</sub> I <sub>СВО</sub>	_	_	-15 -4.0	nA μA	$\begin{array}{l} V_{CB} = -30V, \ I_E = 0 \\ V_{CB} = -30V, \ T_j = 150^{\circ}C \end{array}$
Emitter Cutoff Current	I <sub>EBO</sub>	—	_	-100	nA	$V_{EB} = -5.0V, I_{C} = 0$
Gain Bandwidth Product	f⊤	100	_	_	MHz	$\label{eq:VCE} \begin{array}{l} V_{CE}=-5.0V,\ I_{C}=-10mA,\\ f=100MHz \end{array}$
Collector-Base Capacitance	Ссво	—	_	3	pF	V <sub>CB</sub> = -10V, f = 1.0MHz
Emitter-Base Capacitance	CEBO	_	11	—	pF	V <sub>EB</sub> = -0.5V, f = 1.0MHz

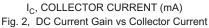
Notes: 1. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

2. No purposefully added lead.

3. Short duration test pulse used to minimize self-heating effect.







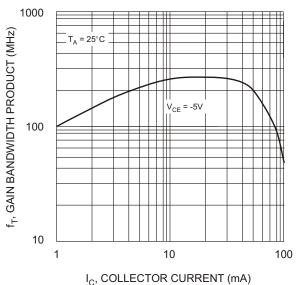


Fig. 4, Gain Bandwidth Product vs Collector Current

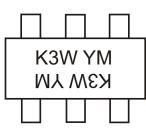


### Ordering Information (Note 4)

Device	Packaging	Shipping		
BC857BS-7-F	SOT-363	3000/Tape & Reel		

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

# **Marking Information**



 $\begin{array}{l} \mathsf{K3W} = \mathsf{Product Type Marking Code} \\ \mathsf{YM} = \mathsf{Date Code Marking} \\ \mathsf{Y} = \mathsf{Year ex: N} = 2002 \\ \mathsf{M} = \mathsf{Month ex: 9} = \mathsf{September} \end{array}$ 

Date Code Key

Year	2002	200	3 2	2004	2005	2006	2007	200	)8 2	2009	2010	2011	2012
Code	Ν	P		R	S	Т	U	V		W	Х	Y	Z
Мо	nth	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Co	de	1	2	3	4	5	6	7	8	9	0	N	D

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