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Maximum Ratings and Thermal Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CBO}	120	V
Collector-Emitter Voltage	V _{CEO}	100	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current (DC)	Ι _C	1	А
Collector Current (Pulse)	I _{CP}	3	А
Power Dissipation	PD	1.4	W
Junction Temperature	TJ	150	°C
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55~150	°C
Thermal Resistance from Junction to Ambient (Note)	$R_{ ext{ heta}JA}$	89	°C/W
Note: Mounted on FR4 PCB at 1 inch square copper pad.			







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Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics						
Collector-Emitter Breakdown Voltage	BV _{CEO}	I_{C} = 10mA, I_{B} = 0A	100	-	-	V
Collector-Base Breakdown Voltage	BV _{CBO}	I _C = 0.1mA, I _E = 0A	120	-	-	V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = 0.1mA, I _C = 0A	6	-	-	V
Collector Cutoff Current	I _{CBO}	V_{CB} = 80V, I _E = 0A	-	-	100	nA
Emitter Cutoff Current	I _{EBO}	V_{EB} = 6V, I _C = 0A	-	-	100	nA
ON characteristics						
	h _{FE}	V_{CE} = 2V, I_C = 5mA	100	-	-	
DC Current Gain		V_{CE} = 2V, I _C = 150mA	100		250	
(Note1)		V_{CE} = 2V, I _C = 500mA	40	-	-	
	V _{CE(SAT)}	I _C = 0.1A, I _B = 10mA	-	60	120	mV
Collector-Emitter Saturation Voltage		I _C = 0.5A, I _B = 50mA	-	150	350	
(Note I)		I _C = 1A, I _B = 0.1A	-	250	500	
Base-Emitter Saturation voltage	$V_{BE(SAT)}$	I _C = 0.1A, I _B = 10mA	-	-	1.0	V
(Note1)		I _C = 0.5A, I _B = 50mA	-	-	1.1	
Transition Frequency	f _T	$V_{CE} = 5V, I_{E} = -50mA$	100	-	-	MHz
Collector Output Capacitance	C _{OB}	V _{CB} = 10V, I _E = 0A, f=1MHz	-	-	10	pF

Note: 1. Pulse width <300us, Duty cycle <2%

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400

300

BCX56-16-AU

TYPICAL CHARACTERISTIC CURVES

 $V_{CE} = 2V$

PANJ SEM CONDUCTOR

400

300



 $V_{CE} = 5V$

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TYPICAL CHARACTERISTIC CURVES

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PART NO PACKING CODE VERSION

Part No Packing Code Package Type		Packing type	Marking	Version	
BCX56-16-AU_R1_000A1	SOT-89	1000 pcs / 13" reel	811D	Halogen free	

MOUNTING PAD LAYOUT





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BCX56-16-AU

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