Voltage100VCurrent1/	\	SOT-89	Unit: inch(mm) 0.181(4.60)
Features		-	0.173(4.40)
Silicon NPN epitaxial type		0.072(1.83) 0.064(1.62)	4
 Low Vce(sat) 0.35V(max)@lc/lb= 500mA / 50mA 		29)	
 High collector current capability 		<u> 2(2.6</u> 0(2.2	- - 0.167(4.25) 0.155(3.94)
 Excellent DC current gain characteristics 		<u>0.102(2.</u>	0.15
AEC-Q101 qualified		0.047(1.20)	
 Lead free in compliance with EU RoHS 2.0 			① ② ③ ■ 0.019(0.48) 0.118(3.00) BSC
 Green molding compound as per IEC61249 Standa 	ard		BSC
PNP complement: BCX53-16-AU			
Mechanical Data			
Case: SOT-89 Package		0.017(0.44)	0.063(1.60)
Terminals : Solderable per MIL-STD-750, Method 2	2026		0.022(0.56) 0.033(1.40)
 Approx. Weight: 0.002 ounces, 0.057 grams 			
Marking: 811D		2.4	Pin Assignment:
		2.4-	1. Base
		NPN 1	2.4. Collector 3. Emitter
		NPN 1	J. Liniter

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

120 100 6	V V
6	N/
	V
1	А
3	А
1.4	W
150	°C
-55~150	°C
80	°C/W
i	-55~150 89



BCX56-16-AU

NPN Low Vce(sat) Transistor





BCX56-16-AU

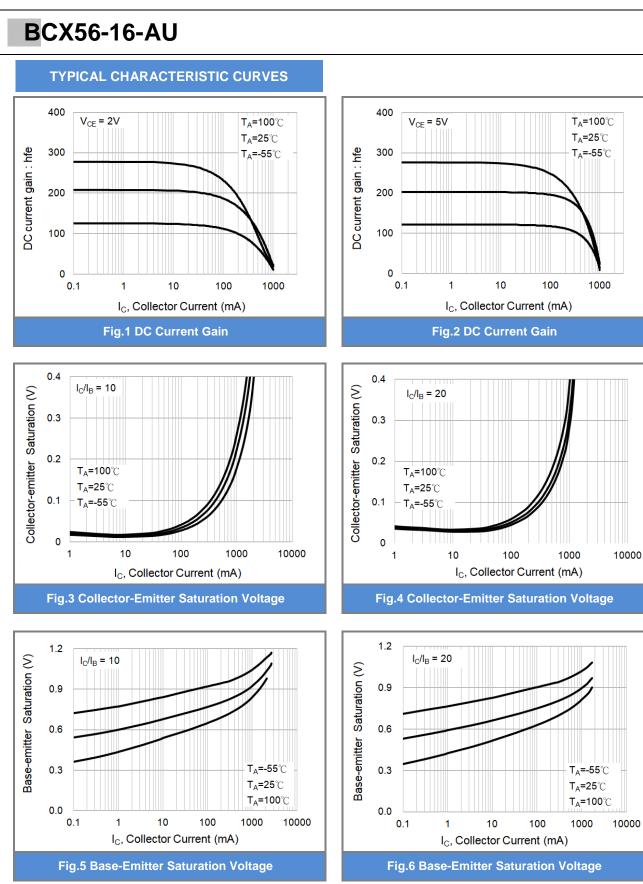
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

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						-
DC Current Gain (Note1)	h _{FE}	V_{CE} = 2V, I_C = 5mA	100	-	-	
		V _{CE} = 2V, I _C = 150mA	100	-	250	
		V_{CE} = 2V, I _C = 500mA	40	-	-	
Collector-Emitter Saturation Voltage (Note1)	V _{CE(SAT)}	I _C = 0.1A, I _B = 10mA	-	60	120	mV
		I _C = 0.5A, I _B = 50mA	-	150	350	
		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%



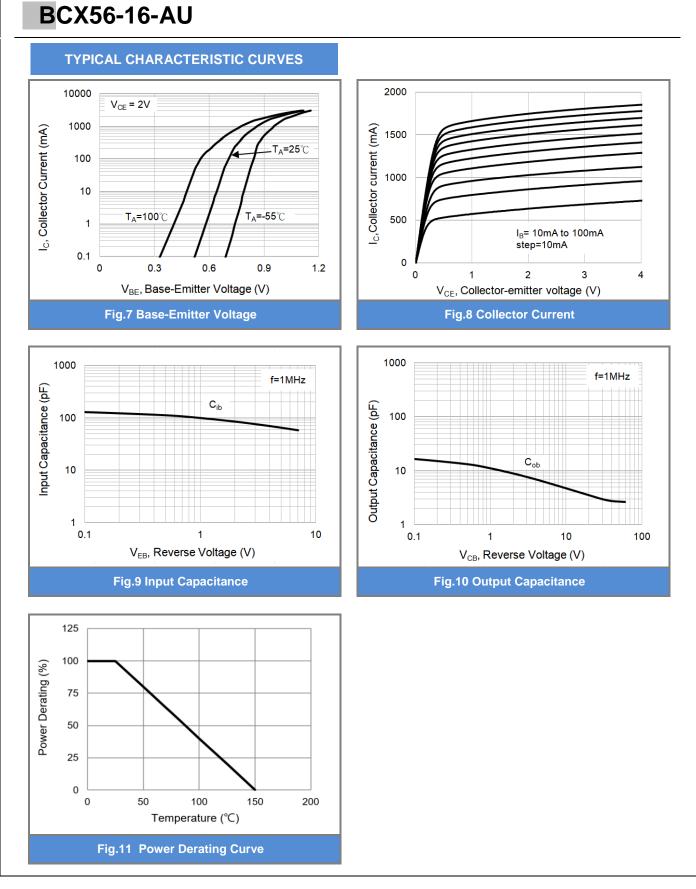
February 15,2019-REV.00







February 15,2019-REV.00







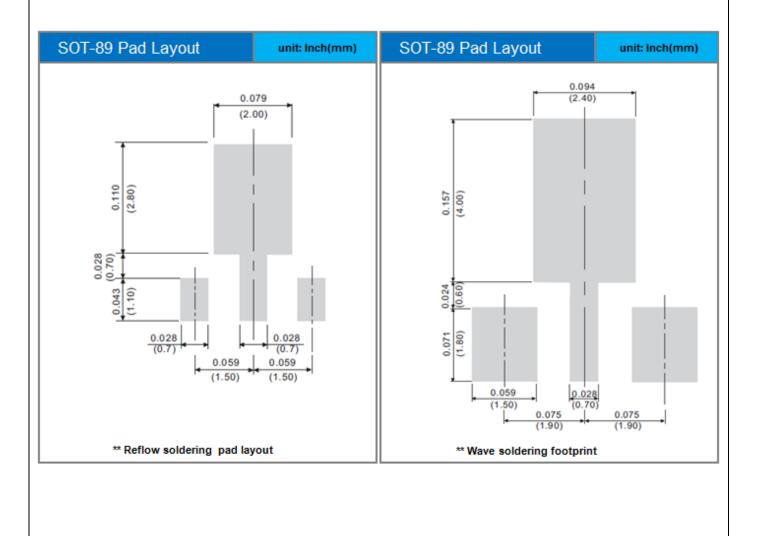


BCX56-16-AU

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
BCX56-16-AU_R1_000A1	SOT-89	1,000 pcs / 7" reel	811D	Halogen free

MOUNTING PAD LAYOUT





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BCX56-16-AU

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