



An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

NPN SILICON PLANAR TRANSISTOR

BSX62, BSX63



Metal Can Package



NPN SILICON PLANAR TRANSISTORS IN TO-39 PACKAGE.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	BSX62	BSX63	UNITS
Collector Emitter Voltage	V_{CEO}	40	60	V
Collector Emitter Voltage	V_{CES}	60	80	V
Emitter Base Voltage	V_{EBO}	5	5	V
Collector Current Continuous	I_{C}	3.0		Α
Base Current	I_B	50	mA	
Total Power Dissipation @ Ta=25°C	P _{tot}	5.0		W
Operating And Storage Junction	T_{j},T_{stg}	-65 to	°C	
Temperature Range				
THERMAL RESISTANCE				
Junction to Ambient	$R_{th(j-a)}$	20	00	K/W
Junction to Case	$R_{th(i-c)}$	35		K/W

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL TEST CONDITION		BSX62		BSX63		UNITS
			MIN	MAX	MIN	MAX	
Collector Emitter Breakdown Voltage	BV _{CEO} *	I_C =100mA, I_B =0	40		60		V
Collector Base Breakdown Voltage	BV_CBO	I_{C} =100 μ A, I_{E} =0	60		60		V
Emitter Base Breakdown Voltage	BV_{EBO}	$I_E = 10 \mu A, I_C = 0$	5.0		5.0		V
Collector Cut off Current	I_{CES}	V_{CE} =40V, V_{BE} =0V		0.1			μΑ
		V_{CE} =40V, V_{BE} =0V Ta=150°C		100			μΑ
Collector Cut off Current	I _{CES}					0.1	μΑ
		V_{CE} =60V, V_{BE} =0				100	μΑ
		Ta=150°C					μΑ
Collector Emitter Saturation Voltage	V _{CE(Sat)} *	$I_C=2A,I_B=.2A$		8.0		8.0	V
		$I_C=1A,I_B=.1A$		0.7		0.7	V
Base Emitter Saturation Voltage	V _{BE(Sat)} *	$I_C=2A,I_B=.2A$		1.3		1.3	V
		I _C =1A,I _B =.1A		1.2		1.2	V
Base Emitter Voltage	$V_{\text{BE(on)}}$	I _C =.1A, V _{CE} =1V		1.0		1.0	V
		I_C =1.0A, V_{CE} =1V		1.2		1.2	V
		I_C =2.0A, V_{CE} =5V		1.3		1.3	V

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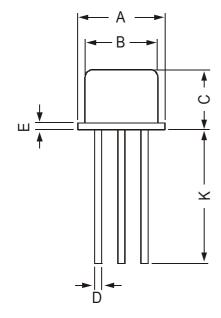
TO-39 Metal Can Package

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

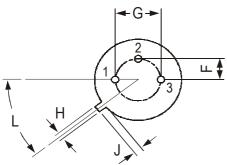
DESCRIPTION	SYMBOL TEST CONDITION		BSX62-6 BSX63-6		BSX62-10 BSX63-10				UNITS
									16
			MIN	MAX	MIN	MAX	MIN	MAX	
DC Current Gain	h _{FE} *	I _C =0.1A,V _{CE} =1V	30		30		30		
		I_C =1.0A, V_{CE} =1V	40	100	63	160	100	250	
		I_C =2.0A, V_{CE} =5V	25		25		25		
CHARACTERISTICS	SVMBO	L TEST CONDITION		A11.7	YPES				UNITS
OHANAOTENIOTIOS	3111100	L ILOI CONDITION	MIN	ALL	MAX				ONTO
DYNAMIC CHARACTERISTICS									
Transition Frequency	f_{T}	I_C =200mA, V_{CE} =10V	30						MHz
Collector Base Capacitance	C_cbo	V_{CB} =10V, I_{E} =0			70				pF
*Pulse Test: Pulse Width ≤200μs, D	uty Cycle	<u><</u> 1.0%							

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DIM	MIN	MAX
Α	8.50	9.39
В	7.74	8.50
С	6.09	6.60
D	0.40	0.53
Е	1	0.88
F	2.41	2.66
G	4.82	5.33
Н	0.71	0.86
J	0.73	1.02
K	12.70	_
L	42 DEG	48 DEG





All dimensions are in mm

PIN CONFIGURATION

- 1. EMITTER
- 2. BASE
- 3. COLLECTOR

Packing Detail

PACKAGE	STANDA	ARD PACK	INNER CARTON BOX		OUTER CARTON BOX			
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt	
TO-39	500 pcs/polybag	540 gm/500 pcs	3" x 7.5" x 7.5"	20K	17" x 15" x 13.5"	32K	40 kgs	

Notes BSX62, BSX63

TO-39 Metal Can Package

Disclaimer

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