

**BSX62
BSX63**

NPN SILICON TRANSISTOR



TO-39 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BSX62, BSX63 types are NPN Silicon Transistors designed for general purpose applications where high collector current is required.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C)

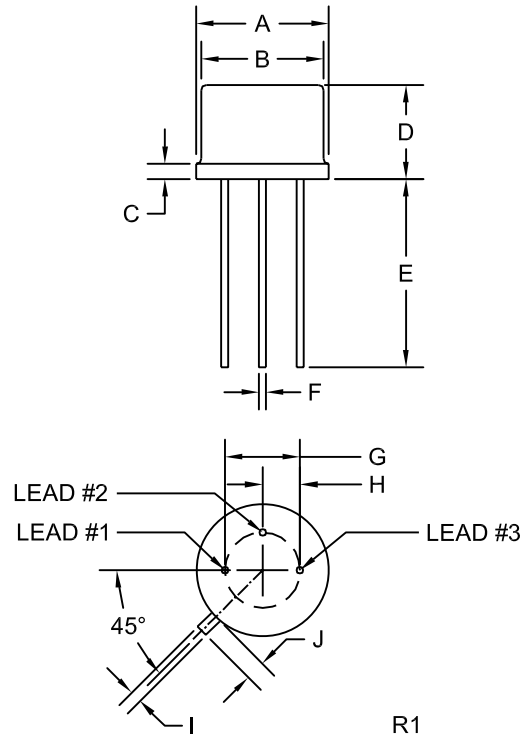
	SYMBOL	BSX62	BSX63	UNITS
Collector-Base Voltage	V _{CB0}	60	80	V
Collector-Emitter Voltage	V _{CEO}	40	60	V
Emitter-Base Voltage	V _{EBO}		5.0	V
Collector Current	I _C		3.0	A
Power Dissipation	P _D		5.0	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200		°C
Thermal Resistance	θ _{JC}	35		°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{CBO}	V _{CB} =40V (BSX62)			100	nA
I _{CBO}	V _{CB} =40V, T _C =150°C (BSX62)			100	µA
I _{CBO}	V _{CB} =60V (BSX63)			100	nA
I _{CBO}	V _{CB} =60V, T _C =150°C (BSX63)			100	µA
I _{EBO}	V _{EB} =5.0V			100	nA
V _{CE(SAT)}	I _C =1.0A, I _B =100mA			0.7	V
V _{CE(SAT)}	I _C =2.0A, I _B =200mA			0.8	V
V _{BE(SAT)}	I _C =1.0A, I _B =100mA			1.2	V
V _{BE(SAT)}	I _C =2.0A, I _B =200mA			1.3	V
V _{BE(ON)}	V _{CE} =1.0V, I _C =100mA			1.0	V
V _{BE(ON)}	V _{CE} =1.0V, I _C =1.0A			1.2	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =2.0A			1.3	V
h _{FE}	V _{CE} =1.0V, I _C =1.0A (BSX62, 63-10)	63		160	
h _{FE}	V _{CE} =1.0V, I _C =1.0A (BSX62, 63-16)	100		250	
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz			70	pF
f _T	V _{CE} =10V, I _C =200mA, f=100MHz	30			MHz
t _{on}	I _C =1.0A, I _{B1} =I _{B2} =50mA			300	ns
t _{off}	I _C =1.0A, I _{B1} =I _{B2} =50mA		4.0		µs

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TO-39 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.335	0.370	8.51	9.40
B (DIA)	0.315	0.335	8.00	8.51
C	-	0.040	-	1.02
D	0.240	0.260	6.10	6.60
E	0.500	-	12.70	-
F (DIA)	0.016	0.021	0.41	0.53
G (DIA)	0.200		5.08	
H	0.100		2.54	
I	0.028	0.034	0.71	0.86
J	0.029	0.045	0.74	1.14

TO-39 (REV: R1)

LEAD CODE:

- 1) EMITTER
- 2) BASE
- 3) COLLECTOR (case)

MARKING: FULL PART NUMBER

R0 (2-April 2008)



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2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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