

**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)

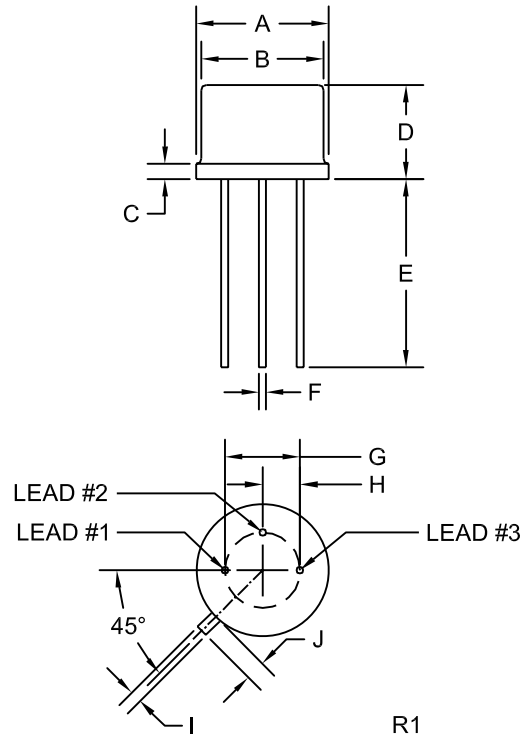
	SYMBOL	BSX62	BSX63	UNITS
Collector-Base Voltage	V _{CB0}	60	80	V
Collector-Emitter Voltage	V _{CEO}	40	60	V
Emitter-Base Voltage	V _{EBO}		5.0	V
Collector Current	I _C		3.0	A
Power Dissipation	P _D		5.0	W
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200		°C
Thermal Resistance	θ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

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

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

CONTACT US

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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Product End of Life Notification

PDN ID:	PDN01239
Notification Date:	7/29/22
Last Buy Date:	1/29/23
Last Shipment Date	7/29/23

Summary: The following NPN high current transistors in the TO-39 package are discontinued now classified as of End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

*** All Plating types (PBFREE, TIN/LEAD) for each item listed are included in this notice.**

Central Part Number	Suggested Replacement
BFX34	N/A
BSX62-10	N/A
BSX63-10	N/A
2N3420	N/A
2N3421	N/A
2N3507	N/A
2N4237	N/A
2N4238	N/A
2N4239	N/A
2N4895	N/A
2N5784	N/A
2N5785	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit <https://my.centralsemi.com/submit-inquiry?type=ER> to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.