

145 Adams Ave., Hauppauge, NY 11788 USA Phone (631) 435-1110 FAX (631) 435-1824

Manufacturers of World Class Discrete Semiconductors www.centralsemi.com BFX34

NPN SILICON TRANSISTOR

JEDEC TO-39 CASE

<u>DESCRIPTION</u>: The CENTRAL SEMICONDUCTOR BFX34 is a silicon NPN transistor designed for switching and general purpose applications where a high collector current (5.0 AMPS) is required.

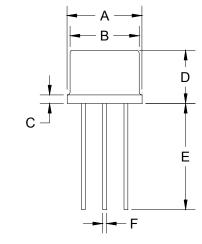
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

	<u>SYMBOL</u>		<u>UNITS</u>
Collector-Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	6.0	V
Collector Current	IC	5.0	Α
Power Dissipation	P_{D}	1.0	W
Power Dissipation (T _C =25°C)	P_{D}	5.0	W
Operating and Storage			
Junction Temperature	T_J, T_stg	-65 to +200	°C
Thermal Resistance	$\Theta_{\sf JA}$	175	°C/W
Thermal Resistance	Θ JC	35	°C/W

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

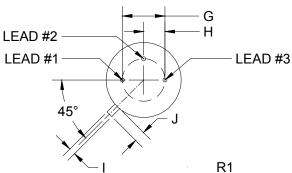
<u>SYMBOL</u>	TEST CONDITIONS	MIN	MAX	<u>UNITS</u>
I _{CES}	V _{CE} =60V		10	μA
I _{EBO}	V _{EB} =4.0V		10	μA
BV _{CBO}	I _C =5.0mA	120		V
BV _{CEO}	I _C =100mA	60		V
BV _{EBO}	I _E =1.0mA	6.0		V
V _{CE(SAT)}	I _C =5.0A, I _B =0.5A		1.0	V
V _{BE} (SAT)	I _C =5.0A, I _B =0.5A		1.6	V
h _{FE} `	V_{CE} =2.0V, I_{C} =2.0A	40	150	
f_T	V _{CE} =5.0V, I _C =0.5A, f=20MHz	70		MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		100	pF
C_{ib}	V _{EB} =0.5V, I _C =0, f=1.0MHz		500	pF
t _{on}	V _{CC} =20V, I _C =5.0A, I _{B1} = I _{B2} =0.5A		0.6	μs
^t off	V _{CC} =20V, I _C =5.0A, I _{B1} = I _{B2} =0.5A		1.2	μs

TO-39 PACKAGE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.335	0.370	8.51	9.40			
B (DIA)	0.315	0.335	8.00	8.51			
С	-	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				
Н	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)							

TO-39 (REV: R1)



Lead Code

- 1) Emitter
- 2) Base
- 3) Collector



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- · Package details
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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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