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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3117 type is an NPN silicon transistor designed for general purpose amplifier applications.

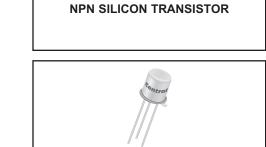


MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Continuous Collector Current	۱ _C	50	mA
Power Dissipation	PD	360	mW
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +200	°C

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =45V		10	nA
I _{СВО}	V _{CB} =45V, T _A =150°C		10	μA
IEBO	V _{EB} =5.0V		10	nA
BVCBO	Ι _C =10μΑ	60		V
BVCEO	I _C =10mA	60		V
BVEBO	I _E =10μΑ	6.0		V
V _{CE(SAT)}	I _C =1.0mA, I _B =100μA		0.35	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =100µA		0.7	V
h _{FE}	V _{CE} =5.0V, I _C =1.0µA	100		
h _{FE}	V _{CE} =5.0V, I _C =10µA	250	500	
h _{FE}	V _{CE} =5.0V, I _C =10µA, T _A =-55°C	50		
h _{FE}	V _{CE} =5.0V, I _C =100µA	300		
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	400		
h _{fe}	V _{CE} =5.0V, I _C =0.5mA, f=30MHz	2.0		
Cob	V _{CB} =5.0V, I _E =0		4.5	pF
C _{ib}	V _{EB} =0.5V, I _C =0		6.0	pF
NF	V _{CE} =5.0V, I _C =5.0µA, f=10kHz			
	BW=1.0kHz, R _S =50kΩ		1.0	dB

R0 (4-September 2012)



2N3117

TO-18 CASE



2N3117

NPN SILICON TRANSISTOR

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.209	0.230	5.31	5.84		
B (DIA)	0.178	0.195	4.52	4.95		
С	-	0.030	-	0.76		
D	0.170	0.210	4.32	5.33		
E	0.500	-	12.70	-		
F (DIA)	0.016	0.019	0.41	0.48		
G (DIA)	0.100		2.54			
Н	0.050		1.27			
l	0.036	0.046	0.91	1.17		
J	0.028	0.048	0.71	1.22		
TO-18 (REV: R1)						

LEAD CODE:

1) Emitter

2) Base

TO-18 CASE - MECHANICAL OUTLINE

3) Collector

MARKING: FULL PART NUMBER

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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

DESIGNER SUPPORT/SERVICES

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

- Free guick 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

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