

2N6468
SILICON
PNP POWER TRANSISTOR



TO-66 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N6468 is a silicon PNP power transistor mounted in a hermetically sealed metal case, designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_C=25^\circ\text{C}$)

Collector-Base Voltage
Collector-Emitter Voltage
Collector-Emitter Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Continuous Base Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL		UNITS
V_{CBO}	130	V
V_{CEX}	130	V
V_{CER}	125	V
V_{CEO}	120	V
V_{EBO}	5.0	V
I_C	4.0	A
I_B	2.0	A
P_D	40	W
T_J, T_{stg}	-65 to +200	$^\circ\text{C}$
Θ_{JC}	4.3	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_C=25^\circ\text{C}$ unless otherwise noted)

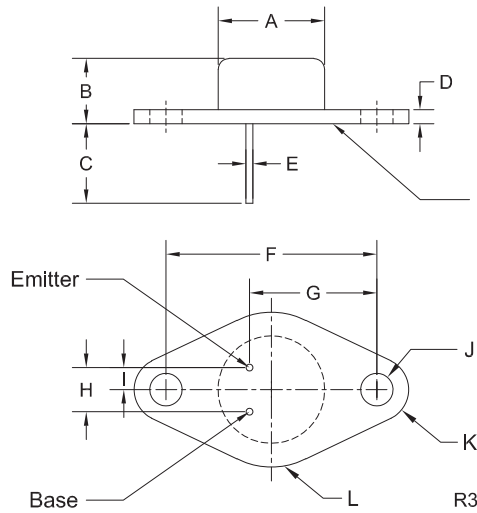
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CEX}	$V_{CE}=120\text{V}, V_{EB}=1.5\text{V}, R_{BE}=100\Omega$		100	μA
I_{CEX}	$V_{CE}=120\text{V}, V_{EB}=1.5\text{V}, R_{BE}=100\Omega, T_C=150^\circ\text{C}$		2.0	mA
I_{CER}	$V_{CE}=100\text{V}, R_{BE}=100\Omega$		100	μA
I_{CEO}	$V_{CE}=60\text{V}$		1.0	mA
I_{EBO}	$V_{EB}=5.0\text{V}$		100	μA
BV_{CEX}	$I_C=100\text{mA}, V_{BE}=1.5\text{V}, R_{BE}=100\Omega$	130		V
BV_{CER}	$I_C=100\text{mA}, R_{BE}=100\Omega$	125		V
BV_{CEO}	$I_C=100\text{mA}$	120		V
$V_{CE(SAT)}$	$I_C=1.5\text{A}, I_B=150\text{mA}$		1.2	V
$V_{CE(SAT)}$	$I_C=4.0\text{A}, I_B=800\text{mA}$		4.0	V
$V_{BE(ON)}$	$V_{CE}=4.0\text{V}, I_C=1.5\text{A}$		2.0	V
$V_{BE(ON)}$	$V_{CE}=4.0\text{V}, I_C=4.0\text{A}$		3.5	V
h_{FE}	$V_{CE}=4.0\text{V}, I_C=1.5\text{A}$	15	150	
h_{FE}	$V_{CE}=4.0\text{V}, I_C=4.0\text{A}$	5.0		
h_{fe}	$V_{CE}=4.0\text{V}, I_C=500\text{mA}, f=1.0\text{kHz}$	25		
f_T	$V_{CE}=4.0\text{V}, I_C=1.0\text{A}, f=1.0\text{MHz}$	5.0		MHz

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TO-66 CASE - MECHANICAL OUTLINE



Seating Plane:
The seating plane must be
within 0.001" concave to
0.004" convex within
0.600" diameter from the
center of the device.

MARKING:
FULL PART NUMBER

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.470	0.500	11.94	12.70
B	0.250	0.340	6.35	8.64
C	0.360	-	9.14	-
D	0.050	0.075	1.27	1.91
E (DIA)	0.028	0.034	0.71	0.86
F	0.956	0.964	24.28	24.48
G	0.570	0.590	14.48	14.99
H	0.190	0.210	4.83	5.33
I	0.093	0.107	2.36	2.72
J (DIA)	0.142	0.152	3.61	3.86
K (RAD)	0.141		3.58	
L (RAD)	0.345		8.76	

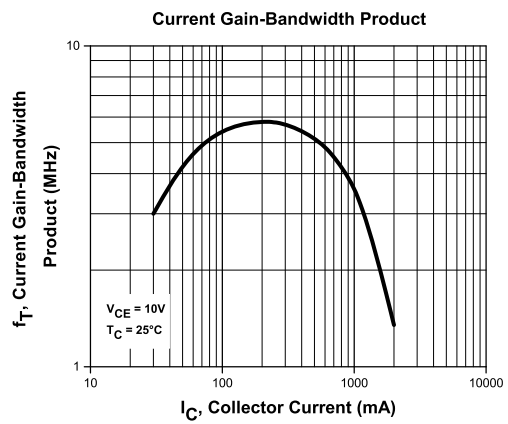
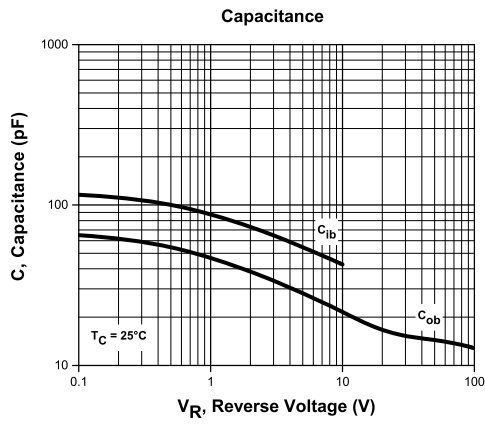
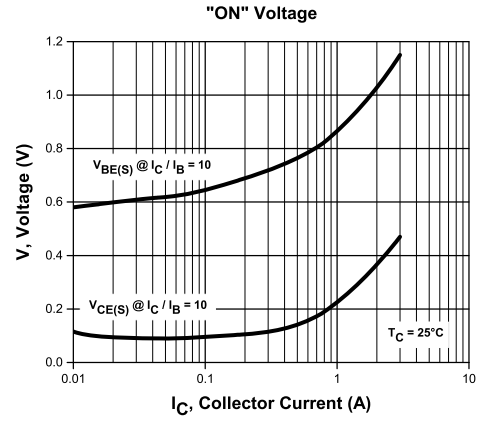
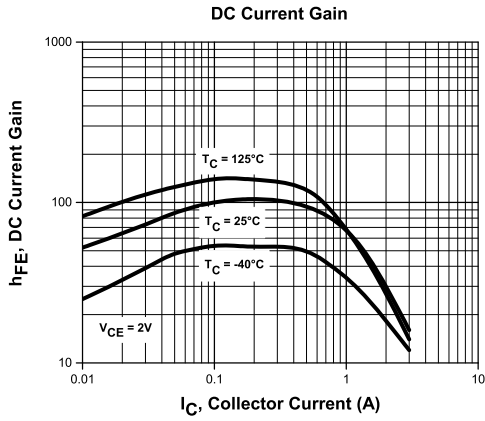
TO-66 (REV:R3)

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TYPICAL ELECTRICAL CHARACTERISTICS

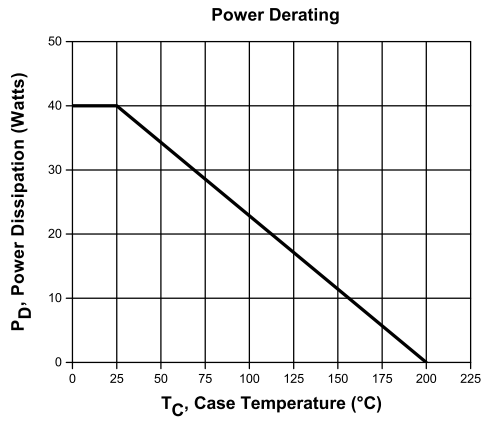


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TYPICAL ELECTRICAL CHARACTERISTICS



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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

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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

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.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

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