

SILICON NPN POWER TRANSISTORS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N3054, 2N3054A devices are silicon NPN power transistors manufactured by the epitaxial base process, mounted in a hermetically sealed metal case, designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER

		1		
MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage		SYMBOL V _{CBO}	90	UNITS V
Collector-Emitter Voltage		VCEV	90	V
Collector-Emitter Voltage		VCER	60	V
	mitter Voltage	V _{CEO}	55	V
Emitter-Bas	e Voltage	V _{EBO}	7.0	V
Continuous Collector Current		IC	4.0	А
Continuous Base Current		I _B	2.0	А
Power Diss	ipation (2N3054)	PD	25	W
Power Diss	ipation (2N3054A)	PD	75	W
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +200	°C
Thermal Re	esistance (2N3054)	ΘJC	7.0	°C/W
Thermal Resistance (2N3054A)		ΘJC	2.33	°C/W
		uploss otherwise p	atod)	
SYMBOL	AL CHARACTERISTICS: (T _C =25°C TEST CONDITIONS	MIN	MAX	UNITS
ICEV	V _{CE} =90V, V _{EB} =1.5V		1.0	mA
ICEV	V _{CE} =90V, V _{EB} =1.5V, T _C =150°C		6.0	mA
I _{CEO}	V _{CE} =30V		500	μA
I _{EBO}	V _{EB} =7.0V		1.0	mA
BVCEO	I _C =100mA	55		V
BV CER	I _C =100mA, R _{BE} =100Ω	60		V
V _{CE(SAT)}	I _C =500mA, I _B =50mA		1.0	V
V _{CE(SAT)}			6.0	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =500mA		1.7	V
h _{FE}	V _{CE} =4.0V, I _C =500mA	25	150	
hFE	V _{CE} =4.0V, I _C =3.0A	5.0		
h _{fe}	V _{CE} =4.0V, I _C =100mA, f=1.0kHz	25	180	
fT	V _{CE} =10V, I _C =200mA, f=1.0MHz	3.0		MHz
^f hfe	V _{CE} =4.0V, I _C =100mA	30		kHz

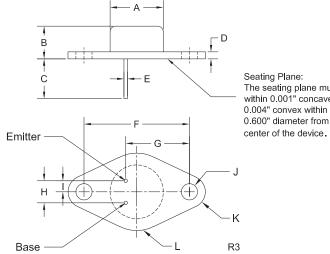
R2 (2-September 2014)



2N3054 2N3054A

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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

MARKING: FULL PART NUMBER

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.470	0.500	11.94	12.70		
В	0.250	0.340	6.35	8.64		
С	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		
Н	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			
/	÷			76		

TO-66 (REV:R3)

R2 (2-September 2014)

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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

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Product End of Life Notification

PDN ID:	PDN01224
Notification Date:	4/19/22
Last Buy Date:	
Last Shipment Date	4/19/23

Summary: The following power transistors are discontinued and now classified as 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
CEN1131	N/A
CEN867	N/A
CP211-TIP41C-CT	N/A
CZT3055 BK	N/A
CZT3055 TR	N/A
2N3054A	N/A
2N6315	N/A
2N6316	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.