2N3054 2N3054A

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



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MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage		SYMBOL V _{CBO}	90	UNITS V
Collector-Emitter Voltage		ACEA ACBO	90	V
	Collector-Emitter Voltage		60	V
Collector-Emitter Voltage		V _{CER} V _{CEO}	55	V
	Emitter-Base Voltage		7.0	V
	Collector Current	V _{EBO}	4.0	A
Continuous Base Current		I _B	2.0	Α
Power Diss	ipation (2N3054)	PD	25	W
Power Dissipation (2N3054A) Operating and Storage Junction Temperature Thermal Resistance (2N3054)		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
ELECTRIC	AL CHARACTERISTICS: (T _C =25°C	unless otherwise no	nted)	
SYMBOL I _{CEV}	TEST CONDITIONS VCE=90V, VEB=1.5V	MIN	MAX 1.0	UNITS mA
ICEV	V _{CF} =90V, V _{FB} =1.5V, T _C =150°C		6.0	mA
ICEO	V _{CE} =30V		500	μΑ
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)}	I _C =3.0A, I _B =1.0A		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	
h _{FE}	V _{CE} =4.0V, I _C =3.0A	5.0		
h _{fe}	V _{CE} =4.0V, I _C =100mA, f=1.0kHz	25	180	
f _T	V _{CE} =10V, I _C =200mA, f=1.0MHz	3.0		MHz
fhfe	V_{CE} =4.0V, I_{C} =100mA	30		kHz

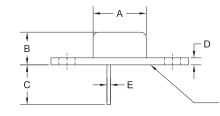
R2 (2-September 2014)

2N3054 2N3054A

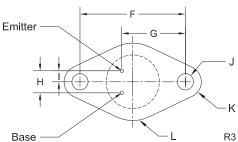
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TO-66 CASE - MECHANICAL OUTLINE



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



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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			
l	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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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)
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- 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

CONTACT US

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