

NPN 2N3054

SILICON POWER TRANSISTORS

The 2N3054 are NPN transistors mounted in TO-66 metal package with the collector connected to the case . They Designed for general purpose switching and amplifier applications. Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings		Value	Unit	
V _{CEO}	Collector-Emitter Voltage ($I_B = 0$)		55	V	
V _{CBO}	Collector-Base Voltage $(I_E = 0)$		90	V	
V _{EBO}	Emitter-Base Voltage ($I_c = 0$)		7	V	
l _c	Collector Current		4	٨	
I _{CM}	Peak Collector Current		10	A	
IB	Base Current		2	А	
P _D	Total Power Dissipation @	T _{case} = 25°	25	W	
TJ	Junction Temperature		200	°C	
T _{Stg}	Storage Temperature range		-65 to +200	°C	

THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R _{thJ-c}	Thermal Resistance, Junction-case	7	°C/W

ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Тур	Мах	Unit
I _{CEO}	Collector Cut-Off Current	V_{CE} = 30 V, I_{B} = 0	-	-	0.5	
I _{EBO}	Emitter Cut-Off Current	$V_{EB} = 7V, I_{C} = 0$	-	-	1	mA
	Collector Cut-Off Current	$V_{CE} = 90V$ $T_C = 25^{\circ}C$	-	-	1	ША
ICEV		$V_{BE} = 1.5V$ $T_{C} = 150^{\circ}C$	-	-	6	
V _{CEO} (*)	Collector Emitter Breakdown Voltage	I _C =0.1 mA, I _B =0	55	-	-	V
h _{FE} (*)	DC Current Gain	I _C = 100 mA, V _{CE} = 10 V	40	-	-	
		I_{C} = 1 A, V_{CE} = 2 V	8	-	80	-
V (*)	Collector-Emitter saturation	I_{C} = 500 mA, I_{B} = 50 mA	-	-	1	V
$V_{CE(SAT)}(*)$	Voltage	$I_{C}=3 A, I_{B}=1 A$	-	-	6	v
V _{BE}	Base-Emitter Voltage	I _C = 500 mA, V _{CE} = 4 V	-	-	1.7	V
f _T	Transition Frequency	I _C = 200 mA, V _{CE} =10 V f= 1 MHz	500	-	-	MHz

(*) Pulse conditions : tp < 300 μ s, δ =2%.

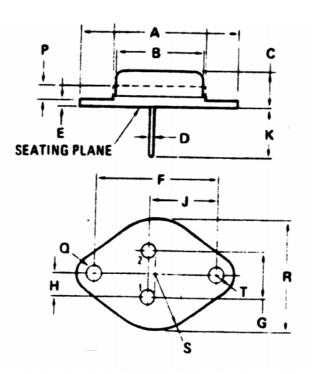


NPN 2N3054

MECHANICAL DATA CASE TO-66

DIMENSIONS			
	mm		
	min	max	
A	30.60	32.52	
В	11.94	12.7	
C D E	6.35	8.63	
D	0.712	0.863	
	1.27	1.91	
F	24.28	24.50	
G H	4.83	5.33	
Н	2.41	2.67	
J	14.48	14.99	
K	9.15	10.50	
Р	-	2.7	
Q S	3.60	4.00	
S	-	8.89	
Т	-	3.68	

Pin 1 :	Emitter
Pin 2 :	Base
Case :	Collector



Revised August 2012

Information furnished is believed to be accurate and reliable. However, Comset Semiconductors assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may results from its use. Data are subject to change without notice. Comset Semiconductors makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Comset Semiconductors assume any liability arising out of the application or use of any product and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Comset Semiconductors' products are not authorized for use as critical components in life support devices or systems.

www.comsetsemi.com

info@comsetsemi.com