

NPN 2N3441

SILICON POWER TRANSISTOR

The 2N3441 are NPN transistors mounted in TO-66 metal package with the collector connected to the case .

They are intended for use in general purpose switching and amplifier applications. Compliance to RoHS.

ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings		Value	Unit
V _{CEO}	Collector-Emitter Voltage	$I_B = 0$	140	V
V _{CBO}	Collector-Base Voltage	$I_E = 0$	160	V
V_{EBO}	Emitter-Base Voltage	$I_C = 0$	7	V
Ic	Collector Current		3	Α
I _B	Base Current		2	Α
P _t	Total Power Dissipation	@ $T_C = 25^{\circ}$	25	W
T_J	Junction Temperature		200	S
T _{Stg}	Storage Temperature		-65 to +200	${\mathcal C}$

ELECTRICAL CHARACTERISTICS

TC=25℃ unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage (*)	I _C = 100 mA , I _B = 0 A	140	-	-	V
I _{CEO}	Collector Cutoff Current	V_{CE} = 140 V , I_{B} = 0	-	-	10	mΑ
		$V_{CE} = 140 \text{ V}, V_{BE} = 1.5 \text{ V}$	-	-	5	
I _{CEX}	Collector Cutoff Current	$V_{CE} = 140 \text{ V} , V_{BE} = 1.5 \text{ V} $ $T_{case} = 150 \text{ C}$	-	-	6	mA
I _{EBO}	Emitter Cutoff Current	V_{EB} = 7 V, I_{C} = 0 A	-	-	1	mΑ
V _{CE(SAT)}	Collector-Emitter saturation Voltage (*)	I_{C} = 2.7 A , I_{B} = 900 mA	-	-	6	V
V _{BE(on)}	Base-Emitter on Voltage (*)	$I_C = 40 \text{ A}$, $I_B = 4 \text{ A}$	-	-	6.5	V
h _{FE}	DC Current Gain	I_{C} = 500 mA, V_{CE} = 4 V I_{C} = 2.7 A, V_{CE} = 4 V	25 5	-	100	-

^(*) Pulse Duration = 300 μ s, Duty Cycle <= 1.5%



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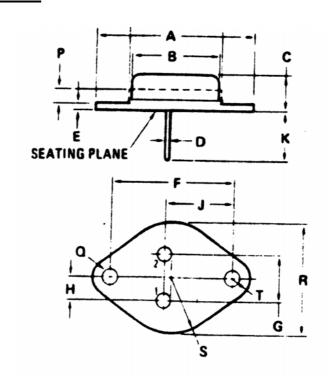
THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
R_{thJC}	Thermal Resistance, Junction to Case	7	C/W

MECHANICAL DATA CASE TO-66

DIMENSIONS		
	mm	
	min	max
Α	30.60	32.52
В	11.94	12.7
B C D	6.35	8.63
D	0.712	0.863
	1.27	1.91
F	24.28	24.50
G	4.83	5.33
H J	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



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www.comsetsemi.com

info@comsetsemi.com