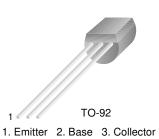


2N6428/6428A

Amplifier Transistor

- Collector-Emitter Voltage: V_{CEO}= 50V
 Collector Dissipation: P_C (max)=625mW



NPN Epitaxial Silicon Transistor

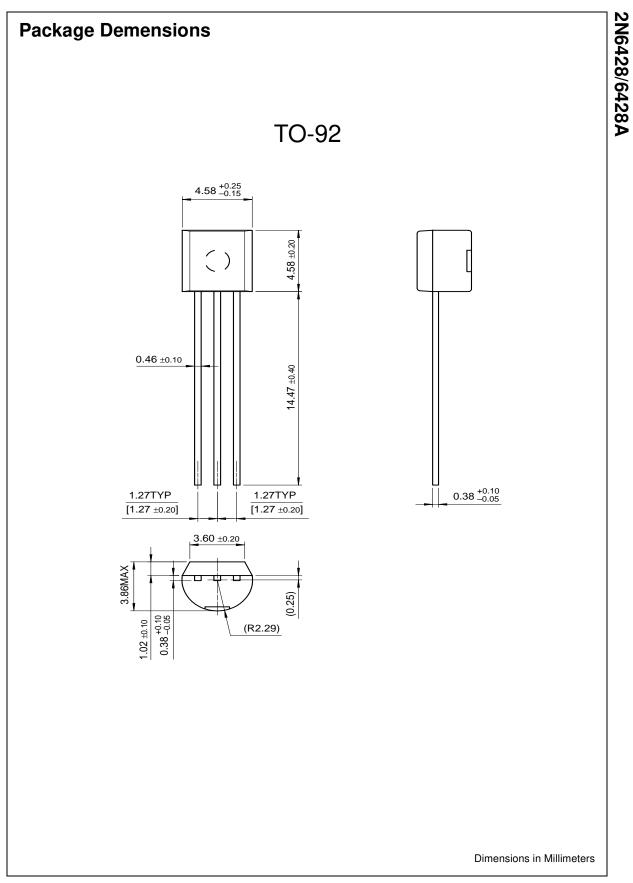
Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	6	V	
с	Collector Current	200	mA	
°c	Collector Dissipation	625	mW	
Гј	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Refer to 2N5088 for graphs

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	60			V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C =1mA, I _B =0	50			V
I _{CBO}	Collector Cut-off Current	V _{CB} =30V, I _E =0			10	nA
I _{CEO}	Collector Cut-off Current	V _{CE} =30V, I _B =0			25	nA
I _{EBO}	Emitter Cut-off Current	$V_{BE}=5V, I_{C}=0$			10	
h _{FE}	* DC Current Gain	V _{CE} =5V, I _C =10µA V _{CE} =5V, I _C =100µA V _{CE} =5V, I _C =1mA V _{CE} =5V, I _B =10mA	250 250 250 250		650	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C =10mA, I _B =0.5mA I _C =100mA, I _B =5mA			0.2 0.6	V V
V _{BE} (on)	Base-Emitter On Voltage	I _C =1mA, V _{CE} =5V	0.56		0.66	V
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz			3	pF
f _T	Current Gain Bandwidth Product	V _{CE} =5V, I _C =1mA, f=100MHz	100		700	MHz
	Noise Figure/Noise Voltage Level : 2N6428 : 2N6428A	V _{CE} =5V, I _C =100μA (1) R _S =10KΩ, B _W =1Hz f=100Hz			3/18.1 2/16.2	dB/n' dB/n'
	: 2N6428 : 2N6428A	(2) R _S =50KΩ, B _W =15.7Hz f=10Hz-10KHz			6/5.7 4/4.6	dB/n dB/n
	: 2N6428 : 2N6428A	(3) R _S =500Ω, B _W =1Hz f=10Hz			3.5/4.3 3/4.1	dB/n' dB/n'



Rev. A, February 2000

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