

Micro Commercial Components

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Features

- Collector Dissipation : Ic = 1A
- Collector Current : Pc = 800mW
- ∉ Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

Symbol	Rating	Rating	Unit
V _{CEO}	Collector-Emitter Voltage	30	V
V _{CBO}	Collector-Base Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5.0	V
Ιc	Collector Current	1	А
Pc	Collector power dissipation	800	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Тур	Max	Units	
OFF CHARA	OFF CHARACTERISTICS					
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =100uAdc, I _E =0)	40			Vdc	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =10mAdc, I _B =0)	30			Vdc	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100uAdc, I _C =0)	5.0			Vdc	
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =30Vdc,I _E =0)			0.1	uAdc	

ON CHARACTERISTICS

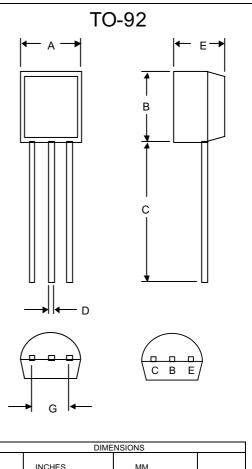
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h _{FE}	Forward Current Transfer ratio*	70		400		
	(I _C =0.1Adc, V _{CE} =1.0Vdc)					
V _{CE(sat)}	Collector-Emitter Saturation Voltage			0.5	Vdc	
	(I _C =1Adc, I _B =0.1Adc)					
f⊤	Transition Frequency		130		MHz	
	(V _{CE} =6Vdc, I _C =10mAdc)					
C _{ob}	Collector Output Capacitance		16		pF	
	$(V_{CB}=6Vdc, I_{E}=0, f=1.0MHz)$				-	
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CLASSIFICATION OF H

Rank	0	Y	G		
Range	70-140	120-240	200-400		

KSD471A KSD471A-O KSD471A-Y KSD471A-G

NPN Silicon Transistors



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	
		-	-	-	

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KSD471A Typical Characteristics



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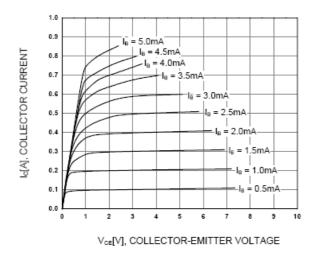


Figure 1. Static Characteristic

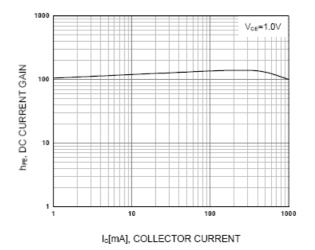
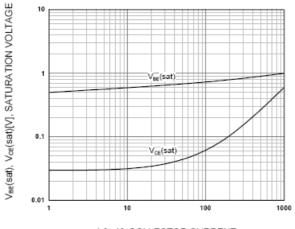
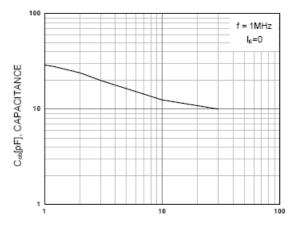


Figure 2. DC current Gain



Ic[mA], COLLECTOR CURRENT





Vcs [V], COLLECTOR-BASE VOLTAGE

Figure 4. Collector Output Capacitance

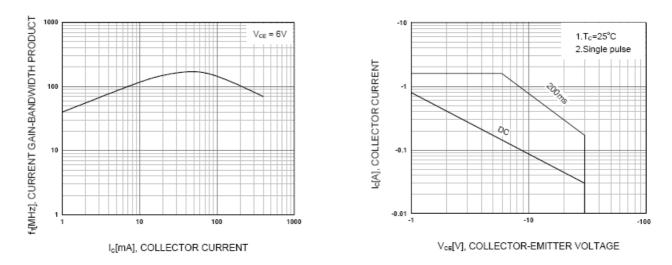
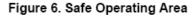


Figure 5. Current Gain Bandwidth Product



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