

Micro Commercial Components



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Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Collector Dissipation : Ic = 1A
- Collector Current : Pc = 800mW
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

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	Min	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 _{СВО}	Collector-Base Cutoff Current (V _{CB} =30Vdc,I _E =0)			0.1	uAdc	

ON CHARACTERISTICS

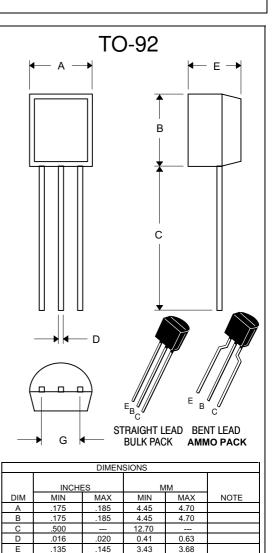
h _{FE}	Forward Current Transfer ratio* (I _c =0.1Adc, V _{ce} =1.0Vdc)	70		400	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =1Adc, I _B =0.1Adc)			0.5	Vdc
f _T	Transition Frequency (V _{CE} =6Vdc, I _C =10mAdc)		130		MHz
C _{ob}	Collector Output Capacitance (V _{CB} =6Vdc, I _E =0, f=1.0MHz)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

CLASSIFICATION OF H

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

KSD471A-O KSD471A-Y KSD471A-G

NPN Silicon Transistors



G	.173	.220	4.40	5.60	Bent Lead	
For ammo packing detailed specification, click here to visit our website						
of product packaging for details.						

2 4 2

2.67

105

nar

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Straight Lead

KSD471A Typical Characteristics

 $\cdot M \cdot C \cdot C \cdot$

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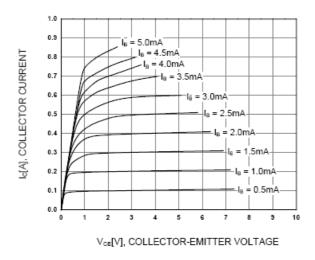


Figure 1. Static Characteristic

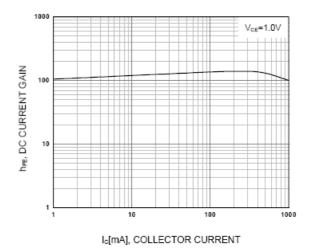
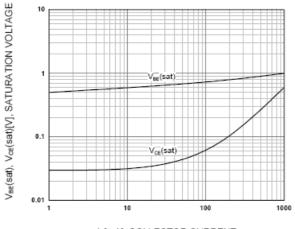
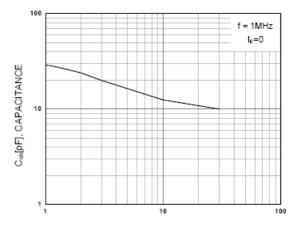


Figure 2. DC current Gain



Ic[mA], COLLECTOR CURRENT





V_{CB} [V], COLLECTOR-BASE VOLTAGE

Figure 4. Collector Output Capacitance

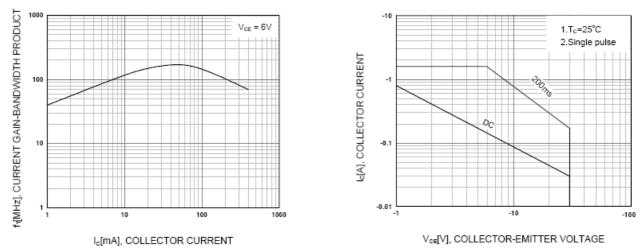


Figure 5. Current Gain Bandwidth Product



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Ordering Information :

Device	Packing		
Part Number-AP	Ammo Packing: 20Kpcs/Carton		
Part Number-BP	Bulk: 100 Kpcs/Carton		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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