



Micro Commercial Components

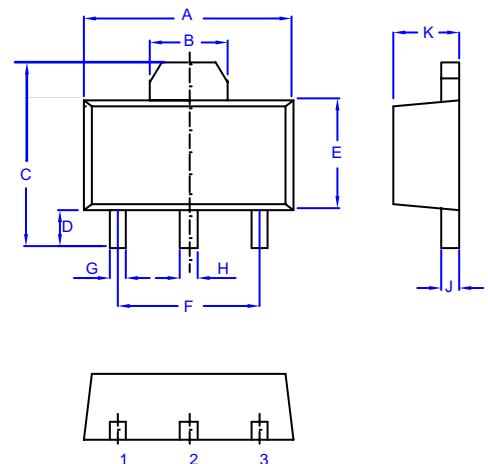


Micro Commercial Components  
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**2SC4672-P**  
**2SC4672-Q**  
**2SC4672-R**

**NPN**  
**Plastic-Encapsulate**  
**Transistors**

**SOT-89**



1.BASE  
 2.COLLECTOR  
 3.EMITTER

DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

**Features**

- Halogen free available upon request by adding suffix "-HF"
- Ideally Suited For Automatic Insertion
- Untral Small Surface Mount Package
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

**Maximum Ratings @ T<sub>a</sub> = 25°C(unless otherwise noted)**

Symbol	Parameter	Value	Unit
I <sub>C</sub>	Collector Current	2	A
P <sub>D</sub>	Total Device Dissipation	0.5	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	°C

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Symbol	Parameter	Min	Max	Units
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**OFF CHARACTERISTICS**

V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1mA <sub>dc</sub> , I <sub>B</sub> =0)	50		V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =50uA <sub>dc</sub> , I <sub>E</sub> =0)	60		V
V <sub>(BR)EBO</sub>	Collector-Base Breakdown Voltage (I <sub>E</sub> =50uA <sub>dc</sub> , I <sub>C</sub> =0)	6		V
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =60V <sub>dc</sub> , I <sub>E</sub> =0)		0.1	μA <sub>dc</sub>
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =5V <sub>dc</sub> , I <sub>C</sub> =0)		0.1	uA <sub>dc</sub>

**ON CHARACTERISTICS**

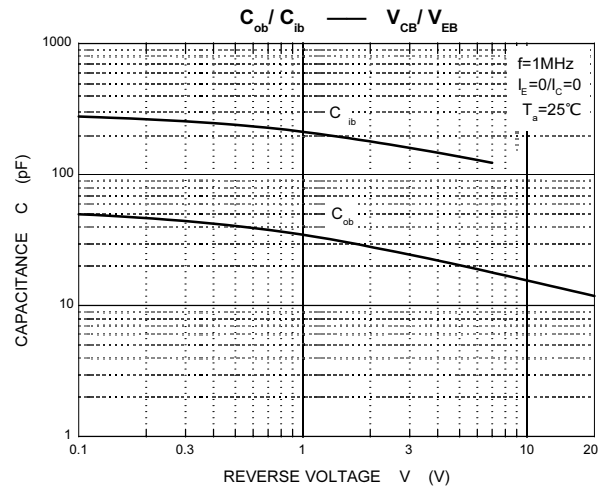
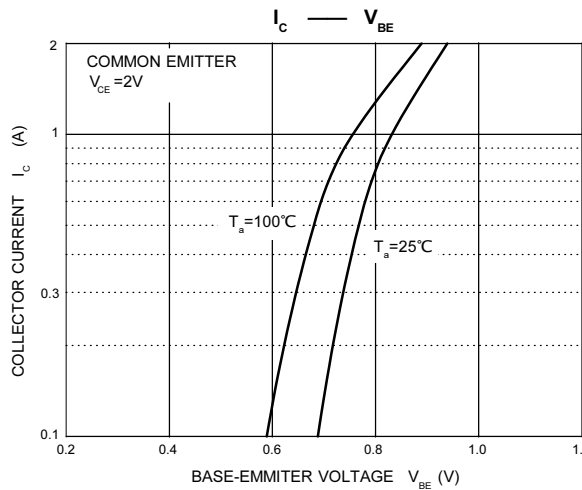
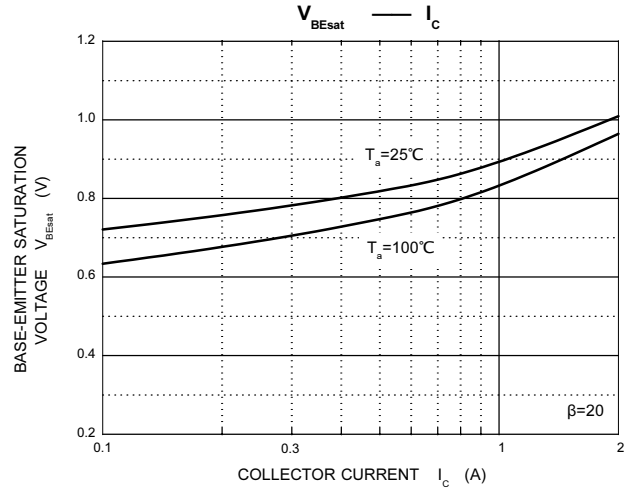
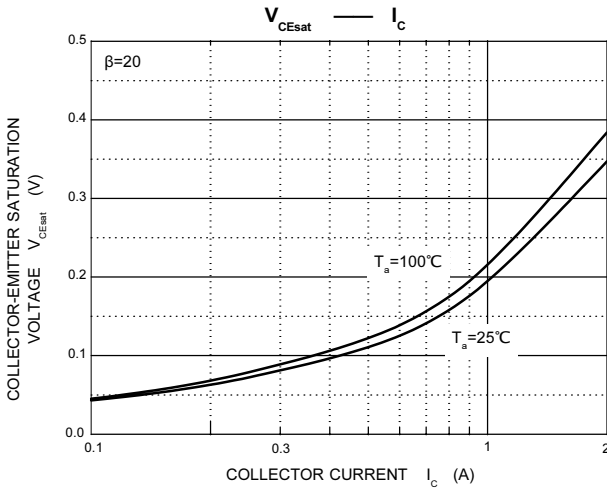
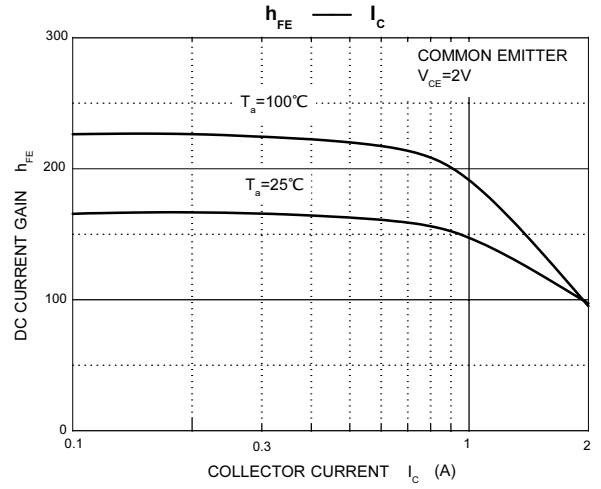
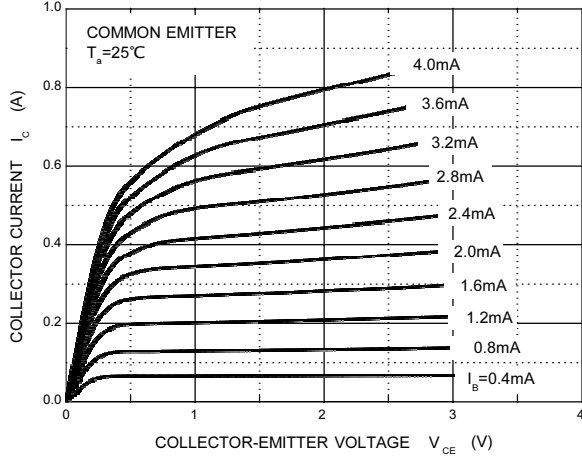
h <sub>FE</sub>	DC Current Gain (I <sub>C</sub> =0.5A <sub>dc</sub> , V <sub>CE</sub> =2V <sub>dc</sub> )	82	270	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =1A <sub>dc</sub> , I <sub>B</sub> =50mA <sub>dc</sub> )		0.35	V <sub>dc</sub>
f <sub>T</sub>	Transition Frequency (V <sub>CE</sub> =2V <sub>dc</sub> , I <sub>C</sub> =500mA <sub>dc</sub> , f=100MHZ)		210(typ)	MHZ
C <sub>ob</sub>	Collector Output Capacitance (V <sub>CB</sub> =10V <sub>dc</sub> , I <sub>E</sub> =0, f=1MHZ)		25(typ)	PF

**CLASSIFICATION OF h<sub>FE</sub>**

Rank	P	Q	R
Range	82-180	120-270	180~390
Marking	DKP	DKQ	DKR

2SC4672-P  
2SC4672-Q  
2SC4672-R

Static Characteristic





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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

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

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