

Micro Commercial Components

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Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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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)
- Power Dissipation: 0.2W (T_A=25°C)
- Collector Current: 0.15ACollector-base Voltage: 60V
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7.0	V
Ic	Collector Current	0.15	Α
Pc	Collector power dissipation	0.2	W
T_J	Junction Temperature	-55 to +150	οС
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_{CEO}	Collector-Emitter Voltage (I _C =1.0mAdc, I _B =0)	50			Vdc	
V _{CBO}	Collector-Base Voltage (I _C =50µAdc, I _E =0)	60	-		Vdc	
V_{EBO}	Emitter-Base Voltage (I _E =50µAdc, I _C =0)	7.0			Vdc	
I _{CBO}	Collector Cutoff Current (V _{CB} =60Vdc,I _E =0)			0.1	μAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =7.0Vdc, I _C =0)			0.1	μAdc	
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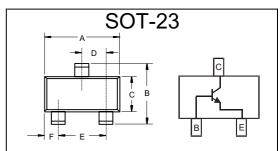
ON CHARACTERISTICS

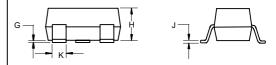
h _{FE}	DC Current Gain	120	 560	
	$(I_C=1.0 \text{mAdc}, V_{CE}=6.0 \text{Vdc})$			
$V_{CE(sat)}$	Collector Saturation Voltage		 0.4	Vdc
, ,	$(I_C=50 \text{mAdc}, I_B=5.0 \text{mAdc})$			
f⊤	Transition Frequency	150	 	MHz
	(V _{CE} =12Vdc, I _C =2.0mAdc,			
	f=100MHz)			

CLASSIFICATION OF HFE

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

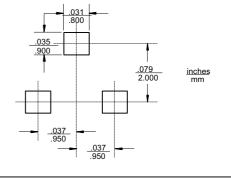
NPN Silicon Epitaxial Transistors





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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

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