

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SA812

Features

- High DC Current Gain: $90 \le h_{FE} \le 600.(V_{CE} = -6.0V, I_C = -1mA)$
- High voltage: V_{CEO}=-50V
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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	-5.0	V
I _C	Collector Current	-100	mA
Pc	Collector power dissipation	200	mW
TJ	Junction Temperature -55 to +150		$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150 °C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
I _{CBO}	Collector Cutoff Current (V _{CB} =-60Vdc,I _E =0)			-0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5.0Vdc, I _C =0)			-0.1	uAdc

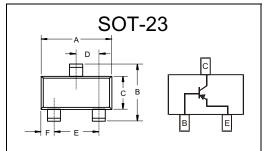
ON CHARACTERISTICS

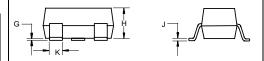
h _F	DC Current Gain*			
	$(I_C=-1.0 \text{mAdc}, V_{CE}=-6.0 \text{Vdc})$	90	 600	
$V_{CE(sat)}$	Collector Saturation Voltage*			
, ,	$(I_C=-100 \text{mAdc}, I_B=-10 \text{mAdc})$		 -0.3	Vdc
V_{BE}	Base Emitter Voltage*			
	$(V_{CE}=-6.0Vdc, I_{C}=-1.0mAdc)$		 -0.68	Vdc
f	Gain Bandwidth product			
ΙΤ	$(V_{CE}=-6.0Vdc, I_{E}=-10mAdc)$	180	 	MHz

CLASSIFICATION OF her

Marking	M4	M5	M6	M7
Range	90-180	135-270	200-400	300-600

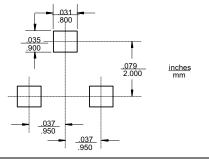
PNP Silicon Epitaxial Transistors





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.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





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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