

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- High DC Current Gain:90 $\leq h_{FE} {\leq} 600.(V_{CE}{=}{-}6.0V,\,I_{C}{=}{-}1mA)$
- High voltage: V_{CEO}=-50V
- 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	-5.0	V		
I _C	Collector Current	-100	mA		
Pc	Collector power dissipation	200	mW		
TJ	Junction Temperature	-55 to +150	°C		
T _{STG}	Storage Temperature	-55 to +150	°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

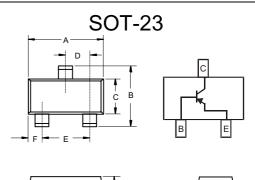
Symbol	Parameter	Min	Тур	Max	Units	
OFF CHARACTERISTICS						
I _{CBO}	Collector Cutoff Current (V _{CB} =-60Vdc,I _E =0)			-0.1	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =-5.0Vdc, I _C =0)			-0.1	uAdc	
ON CHARACTERISTICS						
h _F	DC Current Gain* (I _c =-1.0mAdc, V _{ce} =-6.0Vdc)	90		600		
V _{CE(sat)}	Collector Saturation Voltage* (I _c =-100mAdc, I _B =-10mAdc)			-0.3	Vdc	
V _{BE}	Base Emitter Voltage* (V _{CE} =-6.0Vdc, I _C =-1.0mAdc)			-0.68	Vdc	
f _T	Gain Bandwidth product (V _{CE} =-6.0Vdc, I _E =-10mAdc)	180			MHz	

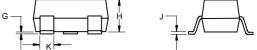
CLASSIFICATION OF hFE

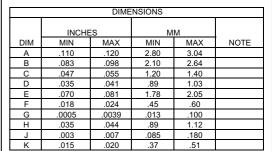
Marking	M4	M5	M6	M7
Range	90-180	135-270	200-400	300-600

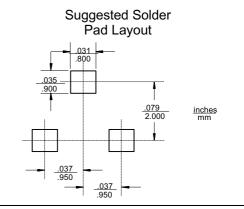
2SA812-M4 2SA812-M5 2SA812-M6 2SA812-M7

PNP Silicon Epitaxial Transistors









– www.mccsemi.com



Ordering Information :

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

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MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

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