

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)
- $\begin{array}{l} \mbox{High } I_{C.} \mbox{ ICMax.= } 0.5 \mbox{ A} \\ \mbox{Low } V_{\mbox{CE(sat)}} \mbox{Optimal for low voltage operation.} \end{array}$
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

NPN Silicon Epitaxial Transistors

2SC2411-P

2SC2411-Q

2SC2411-R

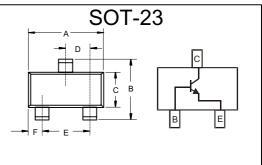
Maximum Ratings @ T_a = 25°C (unless otherwise noted) Symbol Parameter Value Unit I_{C} Collector Current 0.5 А P_D **Collector Power Dissipation** 0.2 W ТJ Junction Temperature 150 °C Storage Temperature Range -55 to +150 °C T_{STG}

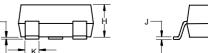
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	TYPE	Max	Units		
OFF CHAR	OFF CHARACTERISTICS						
V(br)CEO	Collector-Emitter Breakdown Voltage (I _c =1mAdc,I _b =0) 32			V			
V(br)CBO	Collector-Base Breakdown Voltage (I _C =100uAdc,I _E =0)	€ <u>4</u> ()			V		
V(br)EBO	Collector-Base Breakdown Voltage (I _E =100uAdc,I _C =0) 5.0			V			
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =20Vdc, I _E =0)			1	µAdc		
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =4.0Vdc, I _C =0)			1	uAdc		
ON CHARACTERISTICS							
Hfe	DC Current Gain (I _c =100mAdc, V _{cE} =3.0Vdc) 82			390			
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _c =500mAdc, I _B =50mAdc)		0.4	Vdc			
F _T	Transition Frequency (VcE=5Vdc,Ic=20mAdc,f=100MHZ)	dc,f=100MHZ) 250			MHZ		
C _{ob}	(VCB=10Vdc,IE=0,f=1MHZ) 6.0			pF			

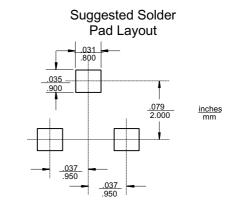
CLASSIFICATION OF here

Rank	Р	Q	R			
Range	82-180	120-270	180-390			
Marking	CP	CQ	CR			





	DIMENSIONS					
	INCH	INCHES MM		IM		
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.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		



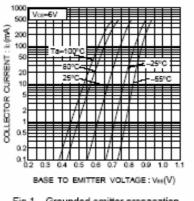
www.mccsemi.com

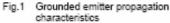


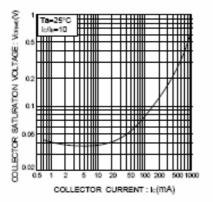


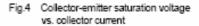
2SC2411 Typical characteristics

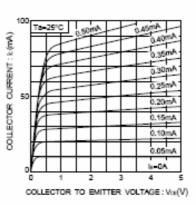
Electrical characteristic curves

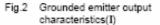


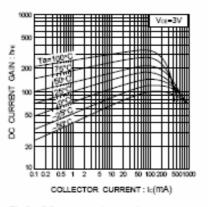




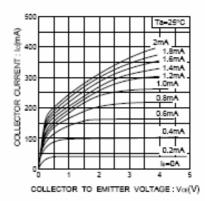


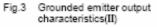












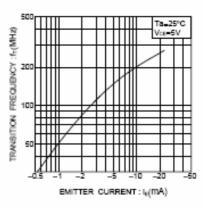
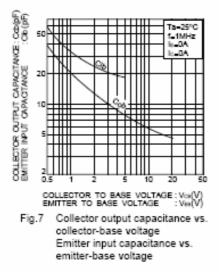


Fig. 6 Gain bandwidth product vs. emitter current



www.mccsemi.com

Revision: A



Ordering Information :

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

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.

www.mccsemi.com