

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SC2411-P 2SC2411-Q 2SC2411-R

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- $\begin{array}{l} \mbox{High $I_{C.}$ ICMax.= 0.5 A$} \\ \mbox{Low $V_{\text{CE(sat)}}$.} \mbox{Optimal for low voltage operation.} \end{array}$
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

NPN Silicon Epitaxial Transistors

Maximum Ratings @ T_a = 25℃(unless otherwise noted)

Symbol	Parameter	Value	Unit
Ic	Collector Current	0.5	Α
P_{D}	Collector Power Dissipation	0.2	W
ΤJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T _{STG}	Storage Temperature Range	-55 to +150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

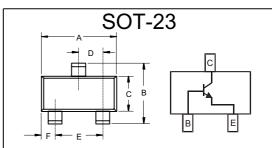
Symbol	Parameter		TYPE	Max	Units	
OFF CHARA	OFF CHARACTERISTICS					
V(BR)CEO	V(BR)CEO Collector-Emitter Breakdown Voltage (I _C =1mAdc,I _B =0)			V		
V(BR)CBO	$(I_{C}=100uAdc,I_{E}=0)$ Collector-Base Breakdown Voltage $(I_{C}=100uAdc,I_{E}=0)$ 40				V	
V(BR)EBO	Collector-Base Breakdown Voltage (I _E =100uAdc,I _C =0)	5.0			٧	
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	

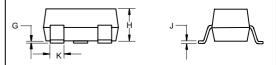
ON CHARACTERISTICS

HFE	DC Current Gain (I _C =100mAdc, V _{CE} =3.0Vdc)	82		390	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I _C =500mAdc, I _B =50mAdc)			0.4	Vdc
$F_{\scriptscriptstyle T}$	Transition Frequency (VCE=5Vdc,IC=20mAdc,f=100MHZ)		250		MHZ
C_{ob}	(VCB=10Vdc,IE=0,f=1MHZ)		6.0		pF

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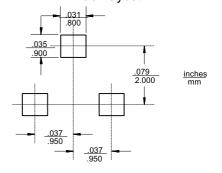
Rank	Р	Q	R
Range	82-180	120-270	180-390
Marking	СР	CQ	CR





DIMENSIONS					
	INCHE	ES .	ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
O	.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	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





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2SC2411 Typical characteristics

Electrical characteristic curves

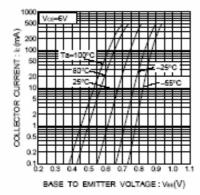


Fig.1 Grounded emitter propagation characteristics

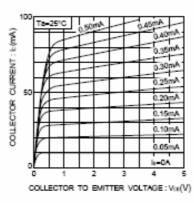


Fig.2 Grounded emitter output characteristics(I)

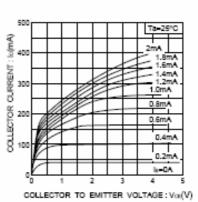


Fig.3 Grounded emitter output characteristics(II)

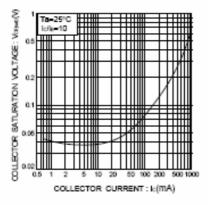


Fig.4 Collector-emitter saturation voltage vs. collector current

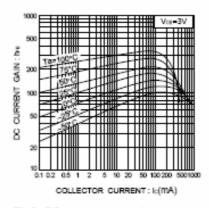


Fig.5 DC current gain vs. collector current

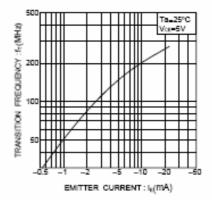


Fig. 6 Gain bandwidth product vs. emitter current

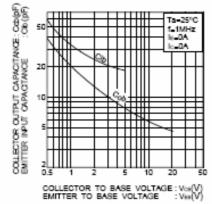


Fig.7 Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage



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Ordering Information:

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

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