

**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 I<sub>C.</sub> ICMax.= 0.5 A Low  $V_{CE(sat)}$ .Optimal for low voltage operation.
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings @ $T_a = 25$ C (unless otherwise noted)			
Symbol	Parameter Value		Unit
Ic	Collector Current	0.5	А
PD	Collector Power Dissipation	0.2	W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature Range	-55 to +150 °C	

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

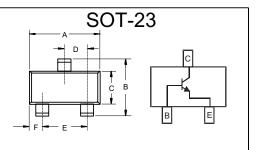
Symbol	Parameter	Min	TYPE	Max	Units
OFF CHAR	OFF CHARACTERISTICS				
V(BR)CEO	Collector-Emitter Breakdown Voltage (I <sub>c</sub> =1mAdc,I <sub>B</sub> =0)	32			V
V(BR)CBO	Collector-Base Breakdown Voltage (I <sub>C</sub> =100uAdc,I <sub>E</sub> =0)	40			V
V(br)EBO	Collector-Base Breakdown Voltage (I <sub>E</sub> =100uAdc,I <sub>C</sub> =0)	5.0			V
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =20Vdc, I <sub>E</sub> =0)			1	µAdc
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =4.0Vdc, I <sub>C</sub> =0)			1	uAdc
ON CHARACTERISTICS					
HFE	DC Current Gain (I <sub>c</sub> =100mAdc, V <sub>CE</sub> =3.0Vdc)	82		390	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>c</sub> =500mAdc, I <sub>B</sub> =50mAdc)			0.4	Vdc
FT	Transition Frequency (VcE=5Vdc,Ic=20mAdc,f=100MHZ)		250		MHZ
C <sub>ob</sub>	(Vcb=10Vdc,IE=0,f=1MHZ)		6.0		pF

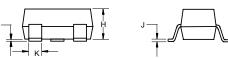
#### CLASSIFICATION OF hEE

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

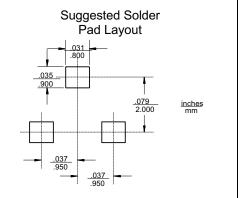
# 2SC2411-P 2SC2411-Q 2SC2411-R

# **NPN Silicon Epitaxial Transistors**





DIMENSIONS					
	INCHE	ES	ММ		
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	
к	.015	.020	.37	.51	



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## 2SC2411 Typical characteristics

#### Electrical characteristic curves

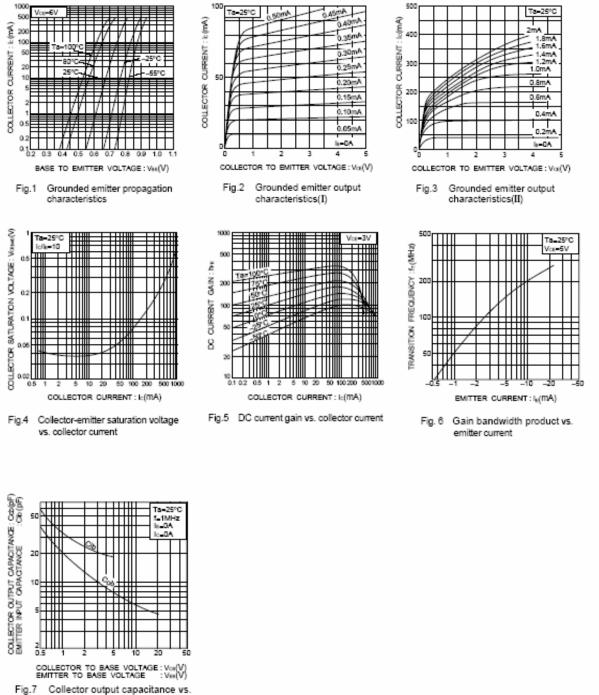


Fig. / Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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### **Ordering Information :**

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

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