

Micro Commercial Components



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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
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings @ $T_a = 25$ C (unless otherwise noted)					
Symbol	Parameter	Value	Unit		
Ι _c	Collector Current	0.5	А		
PD	Collector Power Dissipation	0.2	W		
TJ	Junction Temperature	150	°C		
T _{STG}	Storage Temperature Range	-55 to +150	°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

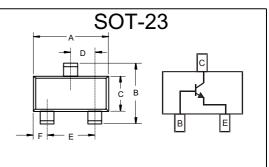
Symbol	Parameter	Min	TYPE	Max	Units	
OFF CHARACTERISTICS						
V(br)CEO	Collector-Emitter Breakdown Voltage (I _c =1mAdc,I _B =0)	32			V	
V(br)CBO	Collector-Base Breakdown Voltage (I _C =100uAdc,I _E =0)	40			V	
V(br)EBO	Collector-Base Breakdown Voltage (I _E =100uAdc,I _C =0)	5.0			V	
I _{CBO}	Collector-Base 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 CHARA	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)		250		MHZ	
C _{ob}	(Vcb=10Vdc,IE=0,f=1MHZ)		6.0		pF	

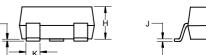
CLASSIFICATION OF her

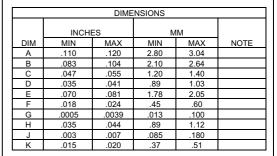
Rank	Р	Q	R	
Range	82-180	120-270	180-390	
Marking	CP	CQ	CR	

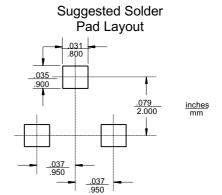
2SC2411-P 2SC2411-Q 2SC2411-R

NPN Silicon Epitaxial Transistors









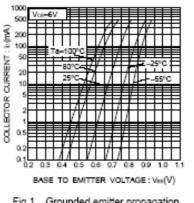
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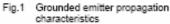
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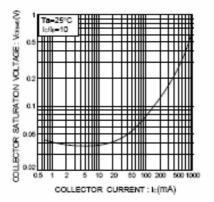


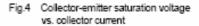
2SC2411 Typical characteristics

Electrical characteristic curves









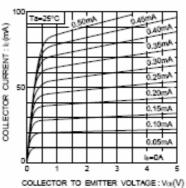
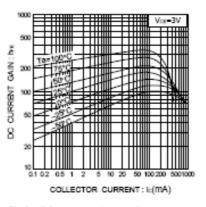




Fig.2 Grounded emitter output characteristics(I)





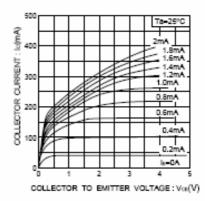


Fig.3 Grounded emitter output characteristics(II)

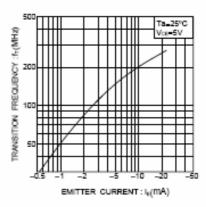
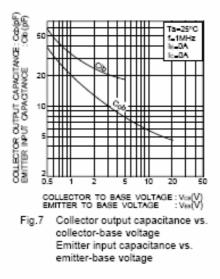


Fig. 6 Gain bandwidth product vs. emitter current



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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