

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_{C.} 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 _{STG} | Storage Temperature Range | -55 to +150 °C | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

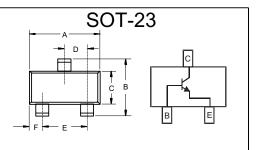
| Symbol | Parameter | Min | TYPE | Max | Units |
|----------------------|---|-----|------|-----|-------|
| OFF CHAR | OFF CHARACTERISTICS | | | | |
| V(BR)CEO | Collector-Emitter Breakdown Voltage (I _c =1mAdc,I _B =0) | 32 | | | V |
| V(BR)CBO | Collector-Base Breakdown Voltage (I _C =100uAdc,I _E =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 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 |
| FT | Transition Frequency (VcE=5Vdc,Ic=20mAdc,f=100MHZ) | | 250 | | MHZ |
| C _{ob} | (Vcb=10Vdc,IE=0,f=1MHZ) | | 6.0 | | pF |

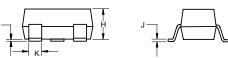
CLASSIFICATION OF hEE

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

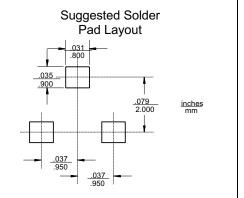
2SC2411-P 2SC2411-Q 2SC2411-R

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

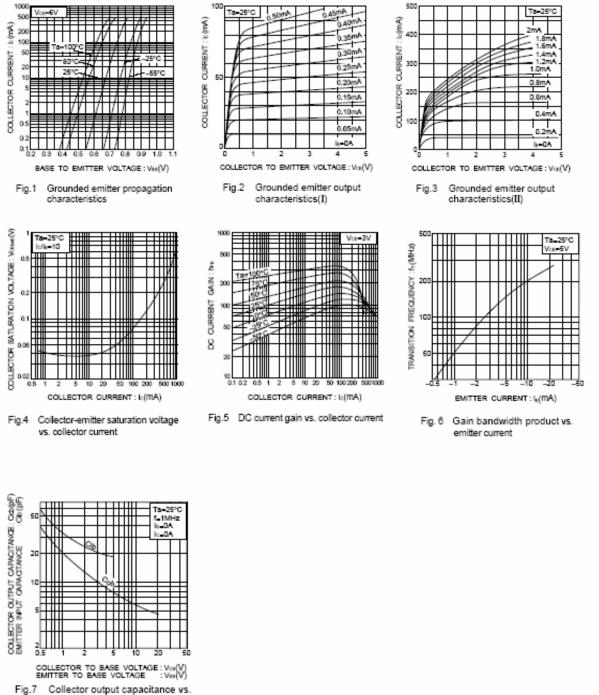


Fig. / Collector output capacitance vs. collector-base voltage Emitter input capacitance vs. emitter-base voltage

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Ordering Information :

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

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