



Micro Commercial Components

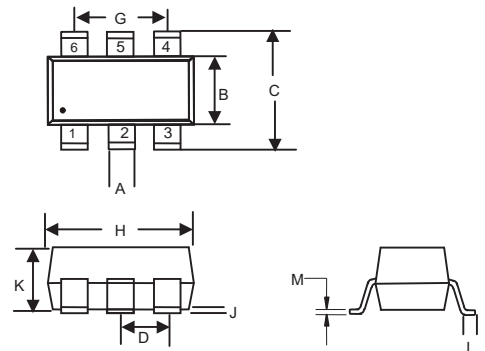


Micro Commercial Components
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PSRV05-4

5 Volts
ESD Protection
Device

SOT23-6L



Features

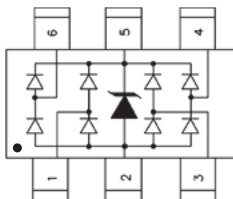
- Halogen free available upon request by adding suffix "-HF"
Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Small package saves board space
Protects four(4) I/O lines
Low clamping voltage
Low capacitance: 2pF
ESD protection to over 8kV contact discharge
Can handle multiple ESD strikes
High Power rating to 500W

Maximum Ratings

- Operating Junction & Storage Temperature: -55°C to +150°C

Table with 5 columns: Parameter, Symbol, Limits, unit. Rows include IEC61000-4-2(ESD) Air Contact, IEC61000-4-4 (EFT): @ 5/50ns, Peak Pulse Power: @ 8/20us, and Peak Pulse Current: @ 8/20us.

Pin Configuration



Marking: V05

Table titled 'DIMENSIONS' with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows list dimensions A through M.

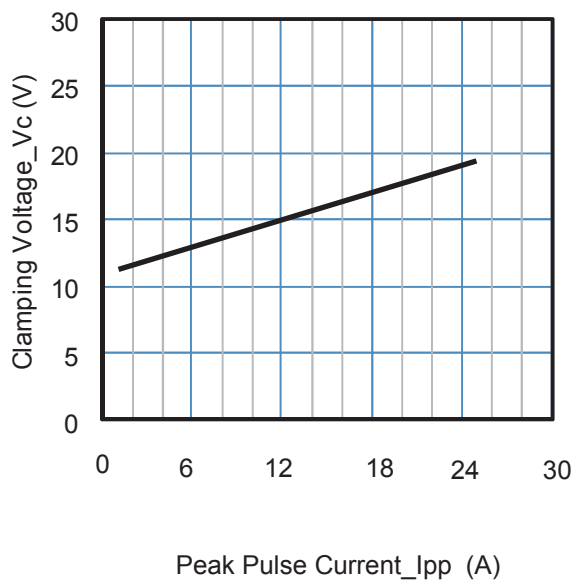


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Electrical characteristics per line@25°C(unless otherwise specified)

| Parameter                 | Symbol        | Conditions  | Min. | Typ. | Max. | Units         |
|---------------------------|---------------|---|------|------|------|---------------|
| Reverse stand-off voltage | $V_{RWM}$     |   |      |      | 5    | V             |
| Reverse Breakdown voltage | $V_{BR}$      | $I_t = 1\text{mA}$ , pin5 to pin 2                      | 6    |      |      | V             |
| Reverse Leakage Current   | $I_R$         | $V_{RWM} = 5\text{V}$ $T=25^\circ\text{C}$              |      |      | 1    | $\mu\text{A}$ |
| Junction Capacitance      | $C_{I/O}$     | $V_R=0\text{V}$ $f = 1\text{MHz}$<br>Any I/O pin to GND |      | 4    |      | pF            |
| Junction Capacitance      | $C_{I/O-I/O}$ | $V_R=0\text{V}$ $f = 1\text{MHz}$<br>Between I/O Pins   |      | 2    | 4    | pF            |
| Clamping voltage          | $V_C$         | $I_{pp}=1\text{A}$ , I/O Pins to GND                    |      |      | 12.5 | V             |
| Clamping voltage          | $V_C$         | $I_{pp}=5\text{A}$ , I/O Pins to GND                    |      |      | 15   | V             |
| Clamping voltage          | $V_C$         | $I_{pp}=25\text{A}$ , I/O Pins to GND                   |      |      | 20   | V             |

Clamping Voltage vs. Peak Pulse Current





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Ordering Information :

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

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

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