

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

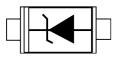
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability •
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode •
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: 9L

Maximum Ratings

Operating Junction & StorageTemperature: -55°C to +150°C

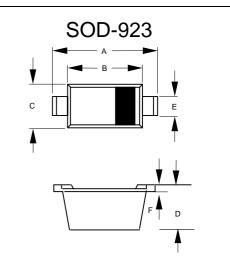
| Parameter | | Symbol | Limits | unit |
|---------------------------------|---------|--------|--------|------|
| IEC61000-4-2(ESD) | Air | | ±15 | κv |
| | Contact | | ±8 | ĸν |
| ESD Voltage per human body mode | | | 16 | KV |
| Peak Pulse Power(8/20us) | | Ррр | 100 | W |

Pin Configuration-Top View

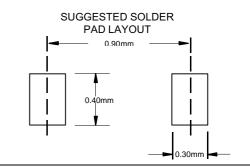


ESDLC5V0D9

ESD Protection Device



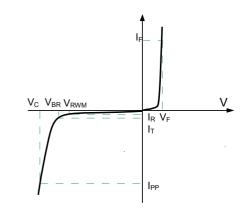
| | DIMENSIONS | | | | | |
|-----|------------|------|------|------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| | MIN | MAX | MIN | MAX | | |
| Α | .037 | .041 | 0.95 | 1.05 | | |
| В | .030 | .033 | 0.75 | 0.85 | | |
| С | .022 | .026 | 0.55 | 0.65 | | |
| D | .014 | .017 | 0.36 | 0.43 | | |
| Е | .006 | .010 | 0.15 | 0.25 | | |
| F | .003 | .007 | 0.07 | 0.17 | | |



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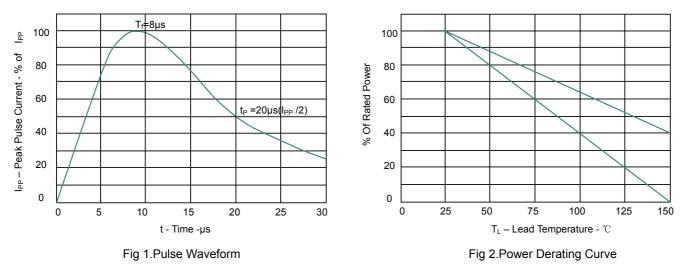
| Symbol | Parameter | | |
|------------------|--|--|--|
| I _{PP} | Maximum Reverse Peak Pulse Current | | |
| Vc | Clamping Voltage @ IPP | | |
| V _{RWM} | Working Peak Reverse Voltage | | |
| I _R | Maximum Reverse Leakage Current @ V _{RWM} | | |
| V _{BR} | Breakdown Voltage @ I _T | | |
| IT | Test Current | | |
| С | Capacitance @V _R =0 and f =1MHz | | |



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

| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|-------------------------|------------------|-------------------------------|------|------|------|-------|
| Working Voltage | V _{RWM} | | | | 5 | V |
| Breakdown Voltage | V _{BR} | I _t =1mA | 5.4 | 7.0 | 8.5 | V |
| Reverse Leakage Current | I _R | V _{RWM} =5V | | | 1 | μA |
| Forward Voltage | VF | I _F =10mA | | 0.8 | 1.25 | V |
| Clamping Voltage | Vc | I_{PP} =1A t_{P} = 8/20µS | | | 9.8 | V |
| Junction Capacitance | Cj | V _R =0V f = 1MHz | | 0.5 | | pF |

Typical Characteristics



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Ordering Information :

| Device | Packing |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 8Kpcs/Reel |

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

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