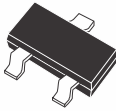


[查询CMPD5001供应商](#)

**CMPD5001
CMPD5001S**

**HIGH CURRENT
INDUCTIVE LOAD
SWITCHING DIODE**



SOT-23 CASE

The following configurations are available:

CMPD5001 SINGLE
CMPD5001S DUAL, IN SERIES

[捷多邦, 专业PCB打样工厂, 24小时加急出货](#)

Central

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD5001 series types are silicon switching diodes manufactured by the epitaxial planar process, designed for switching inductive load applications requiring extremely high current capability.

MARKING CODE: DA2
MARKING CODE: D49

MAXIMUM RATINGS (T_A=25°C)

| | SYMBOL | | UNITS |
|---|-----------------------------------|-------------|-------|
| Continuous Reverse Voltage | V _R | 120 | V |
| Continuous Forward Current | I _F | 400 | mA |
| Peak Repetitive Forward Current | I _{FRM} | 800 | mA |
| Peak Repetitive Reverse Current | I _{RRM} | 600 | mA |
| Forward Surge Current, t _p =1 μs | I _{FSM} | 6000 | mA |
| Forward Surge Current, t _p =1 s | I _{FSM} | 1500 | mA |
| Power Dissipation | P _D | 350 | mW |
| Operating and Storage | | | |
| Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | Θ _{JA} | 357 | °C/W |

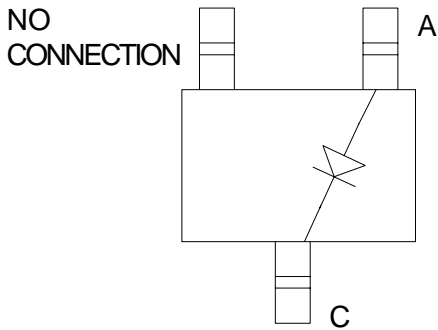
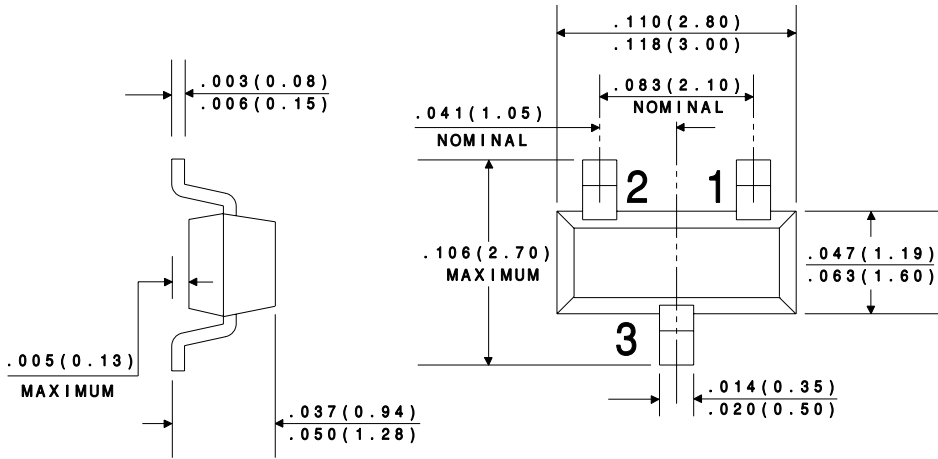
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|------------------|--|-----|------|-------|
| B _V R | I _R =1.0mA | 120 | 175 | V |
| I _R | V _R =90V | | 100 | nA |
| I _R | V _R =90V, T _A =150°C | | 100 | μA |
| V _F | I _F =10mA | | 0.75 | V |
| V _F | I _F =50mA | | 0.84 | V |
| V _F | I _F =100mA | | 0.90 | V |
| V _F | I _F =200mA | | 1.00 | V |

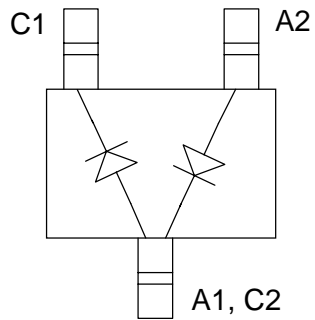


| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|----------|--|-----|------|-------|
| V_F | $I_F=400\text{mA}$ | | 1.25 | V |
| C_T | $V_R=0, f=1\text{ MHz}$ | | 35 | pF |
| t_{rr} | $I_F=I_R=30\text{mA}, \text{RECOV. TO } 1.0\text{mA}, R_L=100\Omega$ | | 60 | ns |
| t_{rr} | $I_F=I_R=10\text{mA}, \text{RECOV. TO } 1.0\text{mA}, R_L=100\Omega$ | | 50 | ns |

All dimensions in inches (mm).



CMPD5001



CMPD5001S