CMPD5001 CMPD5001S

SURFACE MOUNT HIGH CURRENT INDUCTIVE LOAD SILICON SWITCHING DIODE



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DESCRIPTION:

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



The following configurations are available:

CMPD5001	SINGLE	MARKING CODE: DA2
CMPD5001S	DUAL, IN SERIES	MARKING CODE: D49

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	120	V
Continuous Forward Current	ΙF	400	mA
Peak Repetitive Forward Current	I _{FRM}	800	mA
Peak Repetitive Reverse Current	I _{RRM}	600	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	6.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.5	Α
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	357	°C/W

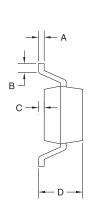
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted) SYMBOL TEST CONDITIONS MIN UNITS MAX $V_R=90V$ 100 nΑ I_R μΑ V_R=90V, T_A=150°C 100 I_R BV_{R} I_R=50μA 120 325 I_F=10mA 0.75 V_{F} V_{F} I_F=50mA 0.84 I_F=100mA 0.90 V_{F} I_F=200mA V_{F} 1.00 I_E=400mA V_{F} 1.25 C_T $V_R=0$, f=1.0MHz35 pF $I_R = I_F = 30 \text{ mA}, I_{rr} = 3.0 \text{ mA}, R_I = 100 \Omega$ 60 ns trr $I_R = I_F = 10 \text{mA}, I_{rr} = 3.0 \text{mA}, R_L = 100 \Omega$ 50 ns trr

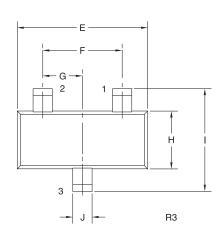
CMPD5001 CMPD5001S

SURFACE MOUNT
HIGH CURRENT
INDUCTIVE LOAD
SILICON SWITCHING DIODE



SOT-23 CASE - MECHANICAL OUTLINE

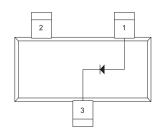




DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.003	0.007	0.08	0.18		
В	0.006	-	0.15	-		
С	-	0.005	-	0.13		
D	0.035	0.043	0.89	1.09		
Е	0.110	0.120	2.80	3.05		
F	0.075		1.90			
G	0.037		0.95			
Н	0.047	0.055	1.19	1.40		
	0.083	0.098	2.10	2.49		
J	0.014	0.020	0.35	0.50		

SOT-23 (REV: R3)

PIN CONFIGURATIONS



2 1 D1 D2

CMPD5001

LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

MARKING CODE: DA2

CMPD5001S

LEAD CODE:

- 1) Anode D2
- 2) Cathode D1
- 3) Anode D1, Cathode D2

MARKING CODE: D49

R4 (25-January 2010)

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