

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.



SOT-23 CASE

CMPD50 CMPD50		SINGLE DUAL, IN SERIES	MARKING CO MARKING CO						
MAXIMUM RATINGS: (T _A =25°C)			SYMBOL		UNITS				
Continuous Reverse Voltage			V _R	120	V				
Continuou	s Forward	Current	١ _F	400	mA				
Peak Repe	etitive Forw	ard Current	I _{FRM}	800	mA				
Peak Repetitive Reverse Current			IRRM	600	mA				
Peak Forward Surge Current, tp=1.0µs			IFSM	6.0	А				
Peak Forward Surge Current, tp=1.0s			IFSM	1.5	А				
Power Dissipation			PD	350	mW				
Operating and Storage Junction Temperature			TJ, T _{stg}	-65 to +150	°C				
Thermal R	esistance		Θ_{JA}	357	°C/W				
ELECTRICAL CHARACTERISTICS PER DIODE: (TA=25°C unless otherwise noted)									
SYMBOL		NDITIONS	MIN	MAX	UNITS				
^I R	V _R =90V			100	nA				
^I R	V _R =90V,	T _A =150°C		100	μA				
BVR	I _R =50μΑ		120	325	V				
V _F	I _F =10mA			0.75	V				
V _F	I _F =50mA			0.84	V				
VF	I _F =100mA			0.90	V				
VF	I _F =200mA			1.00	V				
V _F	I _F =400m/	4		1.25	V				
с _т	V _R =0, f=	1.0MHz		35	pF				
t _{rr}	I _R =I _F =30	mA, I _{rr} =3.0mA, R _I =100Ω		60	ns				
t _{rr}		mA, I_{rr} =3.0mA, R_{I} =100 Ω		50	ns				

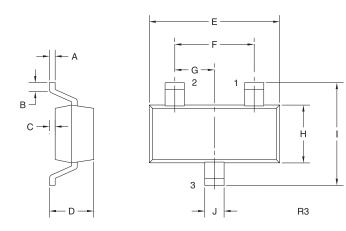
R4 (25-January 2010)





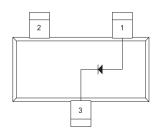
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SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	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				
E	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

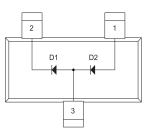


CMPD5001

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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Authorized Distributor

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Central Semiconductor: <u>CMPD5001 TR PBFREE</u> <u>CMPD5001S TR PBFREE</u>