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For any questions, you can email us directly:
sales@integrated-circuit.com

CMPD4150
SURFACE MOUNT
HIGH CURRENT, HIGH SPEED
SILICON SWITCHING DIODE



SOT-23 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPD4150 type is an ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in an epoxy molded surface mount package, designed for high speed switching applications.

MARKING CODE: ABA

MAXIMUM RATINGS: (T_A=25°C)

Continuous Reverse Voltage
 Peak Repetitive Reverse Voltage
 Continuous Forward Current
 Peak Repetitive Forward Current
 Peak Forward Surge Current, tp=1.0µs
 Peak Forward Surge Current, tp=1.0s
 Power Dissipation
 Operating and Storage Junction Temperature
 Thermal Resistance

SYMBOL

V_R
 V_{RRM}
 I_F
 I_{FRM}
 I_{FSM}
 I_{FSM}
 P_D
 T_J, T_{stg}
 θ_{JA}

50
 50
 250
 250
 4.0
 1.0
 350
 -65 to +150
 357

UNITS

V
 V
 mA
 mA
 A
 A
 mW
 °C
 °C/W

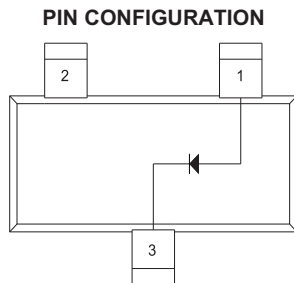
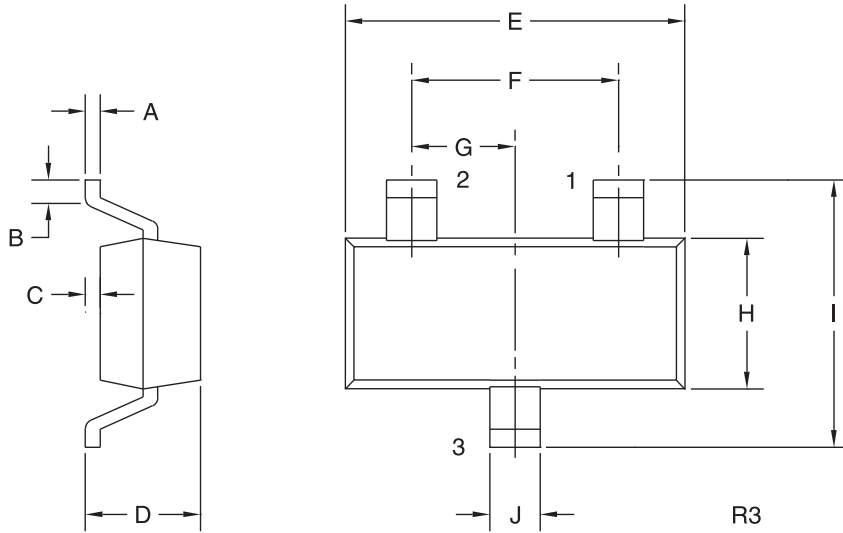
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =50V		100	nA
V _F	I _F =1.0mA	0.54	0.62	V
V _F	I _F =10mA	0.66	0.74	V
V _F	I _F =50mA	0.76	0.86	V
V _F	I _F =100mA	0.82	0.92	V
V _F	I _F =200mA	0.87	1.0	V
C _T	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA		4.0	ns

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SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:
 1) Anode
 2) No Connection
 3) Cathode

MARKING CODE: ABA

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	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	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)

R6 (25-January 2010)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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