CLL4150

SURFACE MOUNT HIGH SPEED SILICON SWITCHING DIODE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL4150 type is an ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in a hermetically sealed glass surface mount package, designed for high speed switching applications.

MARKING: CATHODE BAND



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	50	V
Peak Repetitive Reverse Voltage	V_{RRM}	50	V
Continuous Forward Current	I _F	300	mA
Peak Repetitive Forward Current	I _{FRM}	600	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	500	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200	°C
Thermal Resistance	$\Theta_{\sf JA}$	350	°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C unle	ess otherwise noted)		
SYMBOL TEST CONDITIONS	MIN	MAX	UNITS
I- \/-=50\/		100	nΔ

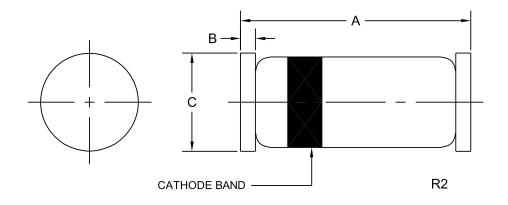
ELECTRIC. SYMBOL	AL CHARACTERISTICS: (T _A =25°C unless othe TEST CONDITIONS	rwise noted) MIN	MAX	UNITS
I_{R}	V _R =50V		100	nA
BV_R	I _R =5.0μA	75		V
V_{F}	I _F =1.0mA	0.54	0.62	V
V_{F}	I _F =10mA	0.66	0.74	V
V_{F}	I _F =50mA	0.76	0.86	V
V_{F}	I _F =100mA	0.82	0.92	V
V_{F}	I _F =200mA	0.87	1.0	V
C_T	V _R =0, f=1.0 MHz		4.0	pF
t _{rr}	$I_R = I_F = 10$ mA, $R_L = 100\Omega$, Rec. to 1.0mA		4.0	ns

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SOD-80 CASE - MECHANICAL OUTLINE



MARKING: CATHODE BAND

DIMENSIONS							
INCHES		MILLIMETERS					
MIN	MAX	MIN	MAX				
0.130	0.146	3.30	3.71				
0.014		0.35					
0.049	0.067	1.25	1.70				
	INC MIN 0.130	INCHES MIN MAX 0.130 0.146 0.014	INCHES MILLIM MIN MAX MIN 0.130 0.146 3.30 0.014 0. 0.				

SOD-80 (REV:R2)

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

CONTACT US

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