CMXD3003TO

SURFACE MOUNT TRIPLE ISOLATED OPPOSING LOW LEAKAGE SILICON SWITCHING DIODES





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMXD3003TO consists of three (3) Isolated Low Leakage Silicon Switching Diodes arranged in an alternating configuration in a SUPERmini SOT-26 surface mount package, and is designed for low leakage switching applications. This device can be configured as a 540V switching diode. See optional mounting pad configuration.

MARKING CODE: C03TO

APPLICATIONS:

- Voltage Multiplier
- Steering Diode Array
- General Purpose Switching

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Continuous Reverse Voltage	V_{R}	180	V
Average Forward Current	IO	200	mA
Continuous Forward Current	ΙF	600	mA
Peak Repetitive Forward Current	I _{FRM}	700	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	2.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	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	MAX	UNITS		
I _R	V _R =125V		1.0	nA		
I_{R}	V _R =125V, T _A =150°C		3.0	μΑ		
I_{R}	V _R =180V		10	nA		
I_{R}	V _R =180V, T _A =150°C		5.0	μΑ		
BV_R	I _R =5.0μA	200		V		
VF	I _F =1.0mA	0.62	0.72	V		
٧ _F	I _F =10mA	0.72	0.83	V		
V_{F}	I _F =50mA	0.80	0.89	V		
٧ _F	I _F =100mA	0.83	0.93	V		
٧F	I _F =200mA	0.87	1.10	V		
V_{F}	I _F =300mA	0.90	1.15	V		
C_T	V_R =0, f=1.0MHz		4.0	pF		

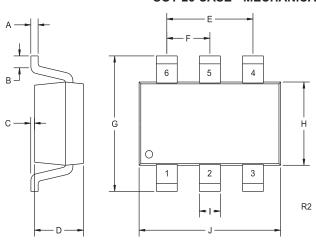
R1 (26-July 2011)

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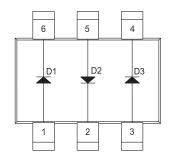
SOT 26 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.004	0.007	0.11	0.19			
В	0.016	-	0.40	-			
С	-	0.004	-	0.10			
D	0.039	0.047	1.00	1.20			
E	0.074	0.075	1.88	1.92			
F	0.037	0.038	0.93	0.97			
G	0.102	0.118	2.60	3.00			
Н	0.059	0.067	1.50	1.70			
İ	0.016		0.41				
J	0.110	0.118	2.80	3.00			

SOT-26 (REV: R2)

PIN CONFIGURATION

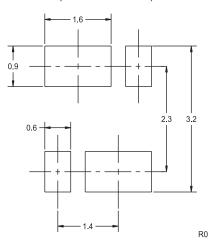


LEAD CODE:

- 1) Anode D1
- 2) Cathode D2
- 3) Anode D3
- 4) Cathode D3
- 5) Anode D2
- 6) Cathode D1

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OPTIONAL MOUNTING PADS For 540V Series Configuration (Dimensions in mm)



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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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