PRODUCT BRIEF

CMXD3003TO

180V, 200mA Triple Opposing, Low Leakage Switching Diodes in SOT-26 package



SOT-26

Central Semiconductor's CMXD3003TO consists of three (3) isolated, low leakage silicon switching diodes arranged in an alternating configuration and packaged in the SOT-26. This device is suitable for a host of switching, signal blocking and steering diode applications. These isolated diodes can be arranged in multiple configurations by utilizing varied mounting pad geometries.

Features:

- Very low leakage current (1.0nA)
- Low capacitance (4.0pF)
- Excellent high temperature performance

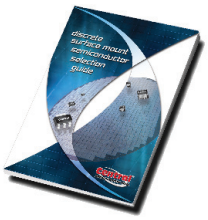
Applications:

- Voltage multiplier
- Steering diode array
- General purpose switching

Benefits:

- Energy efficiency
- Multiple configurations possible
- Industry standard SOT-26 package

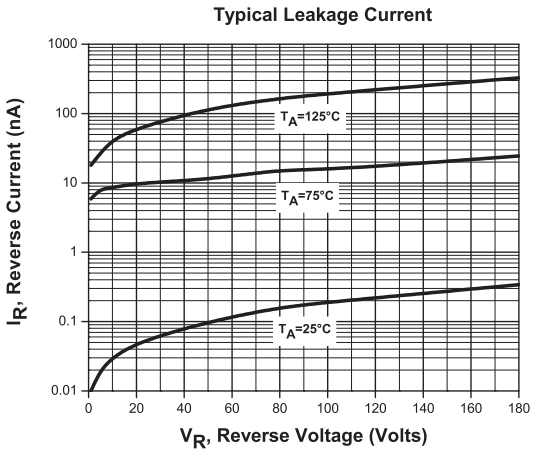
Literature:



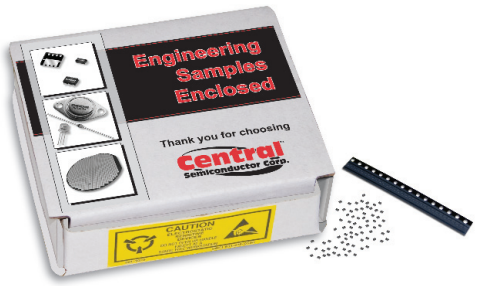
New SMD SELECTION GUIDE

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Visit: web.centralsemi.com/search/sample.php

Typical Electrical Characteristics



Samples:



To order samples of this device visit:
www.centralsemi.com/info/CMXD3003TO

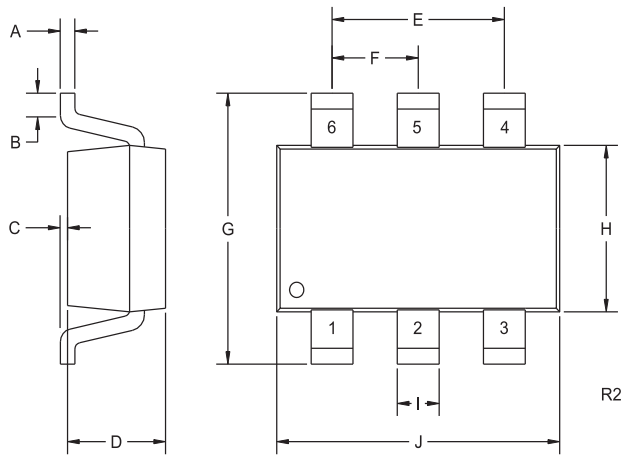
Electrical Characteristics Per Diode: (T_A = 25°C unless otherwise noted)								Thermal Characteristics		
V_R	I_O	V_F		@ I_F	I_R	@ V_R	C_T	P_D	T_J, T_{stg}	Θ_{JA}
(V) MAX	(mA) MAX	(V) MIN	(V) MAX	(mA)	MAX	(V)	(pF) MAX	(mW) MAX	(°C) MAX	(°C/W) MAX
180	200	0.62 0.72 0.80 0.83 0.87 0.90	0.72 0.83 0.89 0.93 1.10 1.15	1.0 10 50 100 200 300	1.0nA 3.0μA 10nA 5.0μA	125 125* 180 180*	4.0	350	-65 to +150	357

* T_A = 150°C

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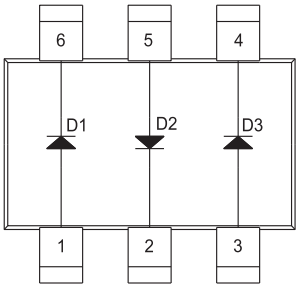
Mechanical Drawing - SOT-26



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.004	0.007	0.11	0.19
B	0.016	-	0.40	-
C	-	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
H	0.059	0.067	1.50	1.70
I	0.016		0.41	
J	0.110	0.118	2.80	3.00

SOT-26 (REV: R2)

Lead Code



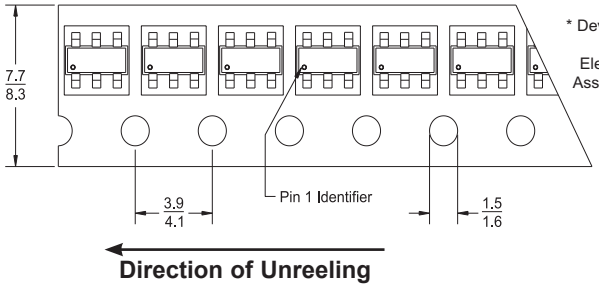
1) Anode D1
2) Cathode D2
3) Anode D3
4) Cathode D3
5) Anode D2
6) Cathode D1

MARKING CODE: C03TO

Tape Dimensions and Orientation

(Dimensions in mm)

Tape Width: 8mm



* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

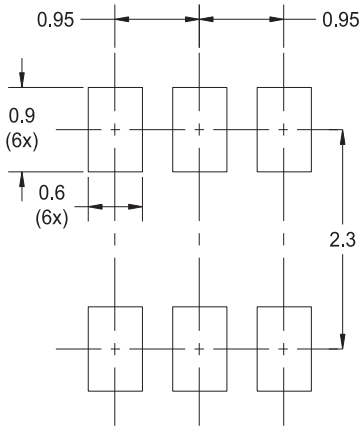
Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
7”	3,000	CMXD3003TO TR

Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7”	9	27,000	9x9x5	23x23x13	4	2
	18	54,000	9x9x9	23x23x23	7	4
	40	120,000	21x9x9	53x23x23	14	7
	108	324,000	27x9x17	69x23x43	39	18

Mounting Pad (Dimensions in mm)



Sample devices available upon request. To order samples of this device visit: www.centralsemi.com/info/CMXD3003TO

Central Semiconductor Corp.™

Innovative Discrete Semiconductors

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