

CMRSH-4DO

40V, 200mA Dual, Schottky Diodes in the ultra miniature SOT-963 package



The Central Semiconductor CMRSH-4DO consists of two isolated 40V, 200mA Schottky diodes with opposing polarity. This new energy efficient device provides versatile multi-configurable options and is packaged in a space saving ultra miniature surface mount SOT-963 case.

Features:

- Dual, isolated, 40V, 200mA Schottky diodes
- Low forward voltage drop (0.35V @ 1.0mA)
- Low reverse current (25nA @ 30V)
- Fast switching (5.0ns Max)
- Small space saving SOT-963 surface mount package

Applications:

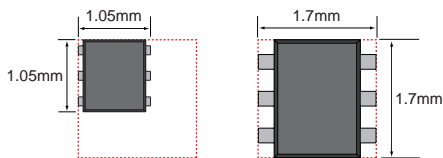
- DC/DC conversion
- Voltage clamping
- Reverse polarity protection
- Over voltage protection
- Battery charging
- Flyback diode

Benefits:

- High current rating in an extremely small package
- Versatile multi-configurable device (see configuration options on reverse)
- Energy efficient device

Package Size and Comparison:

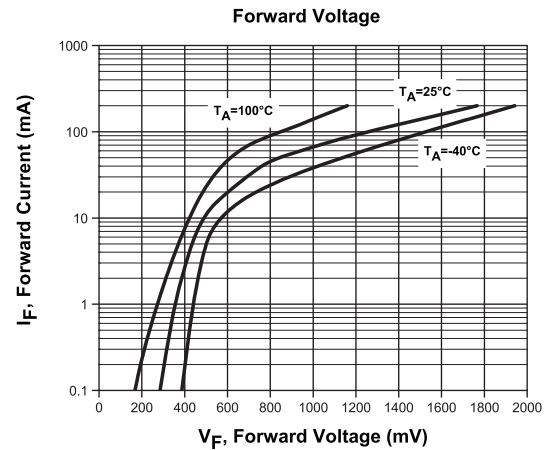
The SOT-963 utilizes **61%** less board space than the SOT-563



The SOT-963 has a **16%** lower profile than the SOT-563



Typical Electrical Characteristics



Samples and Literature



To order samples of this device visit:
www.centalsemi.com/info/CMRSH-4DO



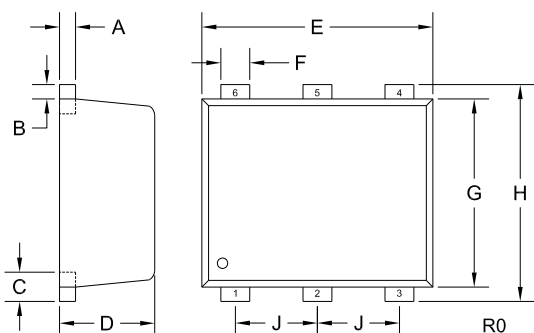
Order your selection guides today.
 Visit: web.centalsemi.com/search/sample.php

Electrical Characteristics (T _A =25°C)								Thermal Characteristics				
V _{RRM}	I _O	V _F		@ I _F	I _R		@ V _R	t _{rr}	C _T	P _D	T _J	θ _{JA}
(V) MAX	(mA) MAX	(V) TYP	(V) MAX	(mA)	(nA) TYP	(nA) MAX	(V)	(ns) MAX	(pF) MAX	(mW)	(°C) MAX	(°C/W) MAX
40	200	0.35	0.38	1.0	25	200	30	5.0	5.0	125	-65 to +125	800
		0.55	0.65	15								
		0.77	1.0	40								

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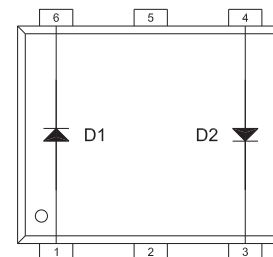
Mechanical Drawing - SOT-963



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.002	0.006	0.050	0.150
B	0.002	0.006	0.050	0.150
C	0.005	0.007	0.125	0.175
D	0.016	0.020	0.400	0.500
E	0.037	0.041	0.950	1.050
F	0.004	0.008	0.100	0.200
G	0.030	0.033	0.750	0.850
H	0.037	0.041	0.950	1.050
J	0.014		0.350	

SOT-963 (REV: R0)

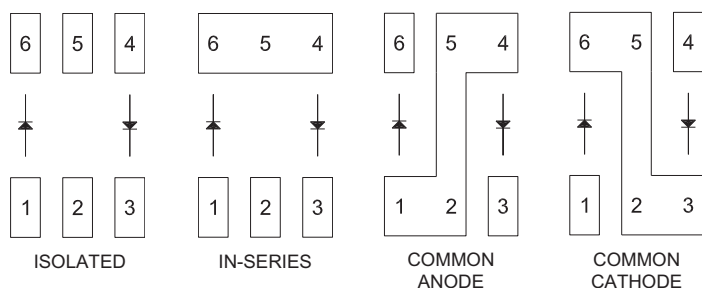
Lead Code



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

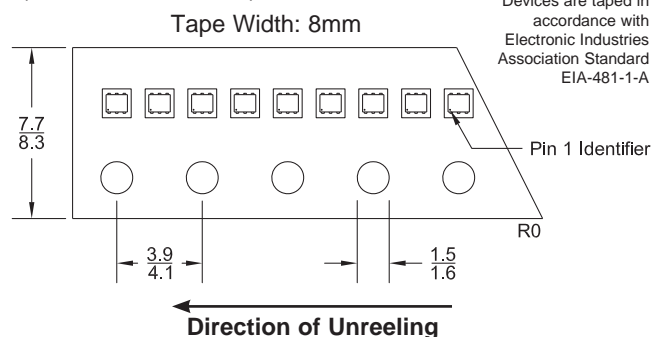
MARKING CODE: CV

Suggested Mounting Pad Configurations



Note:
Two devices easily configurable as a bridge rectifier.

Tape Dimensions and Orientation (Dimensions in mm)



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

Packaging Base

7" Reel = 8,000 pcs. (add TR suffix to part number)

Reel Packing Information

Reel Size	Reels per Box (Maximum)	Parts per Box (Maximum)	Box Dimensions		Shipping Weight (Max.)	
			INCH	CM	LB	KG
7"	3	24,000	8x7x2	20x18x5	1	1
	9	72,000	9x9x5	23x23x13	3	2
	18	144,000	9x9x9	23x23x23	6	3
	40	320,000	21x9x9	53x23x23	13	6
	108	864,000	27x9x17	69x23x43	34	16

Sample devices available upon request. To order samples of this device visit: www.centrasemi.com/info/CMRSH-4DO



Innovative Discrete Semiconductors

For further information contact:
Sales at Central Semiconductor Corp.
(631) 435-1110 or visit our website at:
www.centrasemi.com