

CMRD6263DO

SURFACE MOUNT SILICON  
DUAL, ISOLATED, OPPOSING  
SCHOTTKY DIODE



www.centrasemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMRD6263DO are Dual, Isolated, Opposing highly reliable Schottky Diodes designed for applications where very small size and operational efficiency are prime requirements.

**MARKING CODE: CX**

**FEATURES:**

- Current ( $I_F=15\text{mA}$ )
- $V_{RRM}=70\text{V}$
- Low Forward Voltage Drop ( $V_F=0.395\text{V TYP @ }1.0\text{mA}$ )
- Low Reverse Current ( $98\text{nA TYP @ }50\text{V}$ )
- Extremely Fast Switching ( $5.0\text{ns MAX}$ )

**APPLICATIONS:**

- DC-DC Converters
- Voltage Clamping
- Protection Circuits
- Battery Powered Portable Devices

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Peak Repetitive Reverse Voltage
Continuous Forward Current
Peak Forward Surge Current, $t_p=1.0\text{s}$
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

**SYMBOL**

$V_{RRM}$	70
$I_F$	15
$I_{FSM}$	50
$P_D$	125
$T_J, T_{stg}$	-65 to +150
$\theta_{JA}$	1000

**UNITS**

V
mA
mA
mW
$^\circ\text{C}$
$^\circ\text{C/W}$

**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

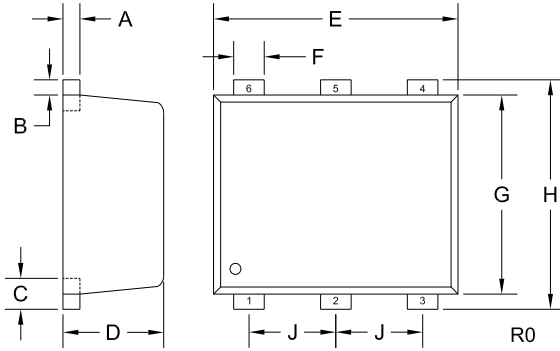
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=50\text{V}$		10	200	nA
$BV_R$	$I_R=10\mu\text{A}$	70			V
$V_F$	$I_F=1.0\text{mA}$		0.395	0.41	V
$C_J$	$V_R=0, f=1.0\text{MHz}$			2.0	pF
$t_{rr}$	$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

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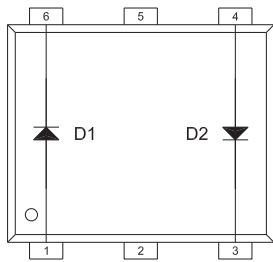
**SOT-963 CASE - MECHANICAL OUTLINE**



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)

**PIN CONFIGURATION**

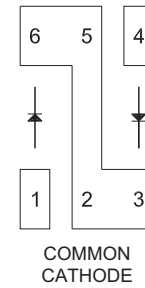
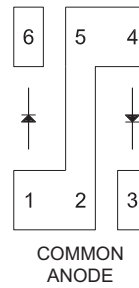
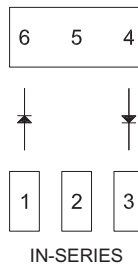


**LEAD CODE:**

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

**MARKING CODE: CX**

**SUGGESTED MOUNTING PAD CONFIGURATIONS**



**Note:**

**Two devices easily configurable as a bridge rectifier.**

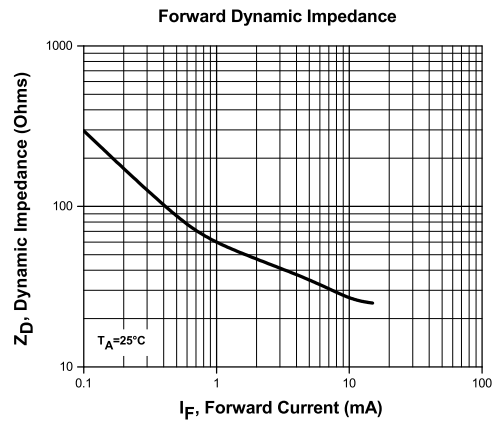
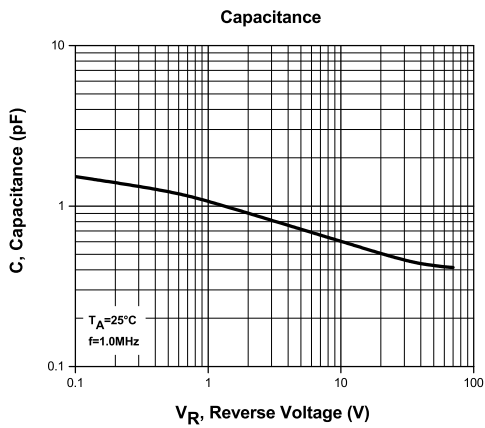
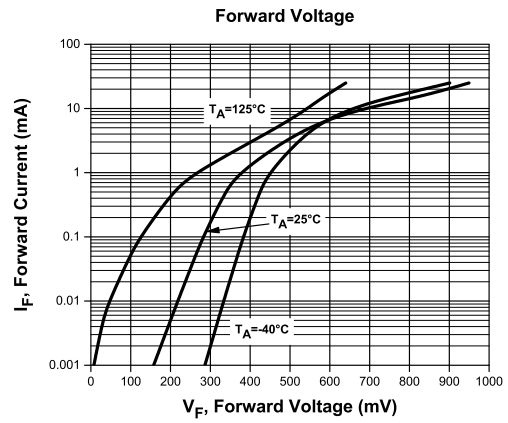
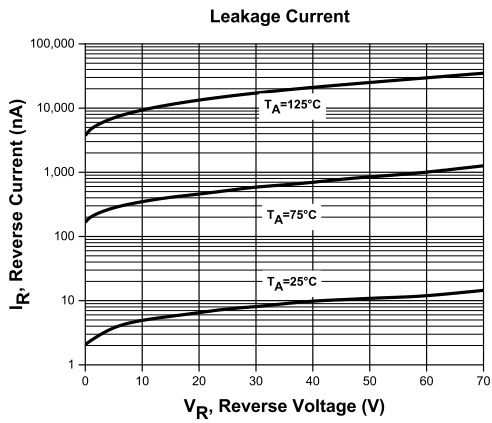
R2 (11-December 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



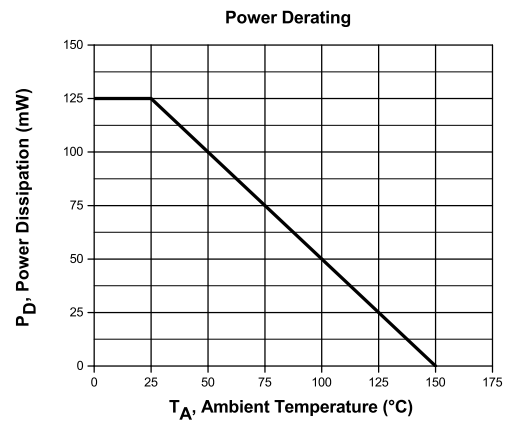
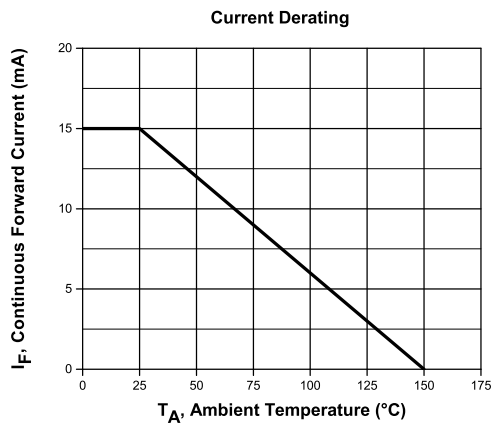
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## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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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### CONTACT US

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