

**CMKSH-3DO**  
**ULTRAmi™**  
**DUAL OPPOSING**  
**SCHOTTKY DIODES**

**ULTRAmi™**



**SOT-363 CASE**

# Central™

**Semiconductor Corp.**

**FEATURES:**

- DUAL OPPOSING (DO) SCHOTTKY DIODES
- SPACE SAVINGS ULTRAmi™ FAMILY
- GALVANICALLY ISOLATED
- LOW FORWARD VOLTAGE  
(0.58V TYP @ 100mA)

**DESCRIPTION:**

The Central Semiconductor CMKSH-3DO incorporates two galvanically isolated, Low  $V_F$  Silicon Diodes with an opposing Anode/Cathode configuration, in a space saving surface mount package, designed for fast switching applications requiring a low forward voltage drop. Marking code is **KDO**.

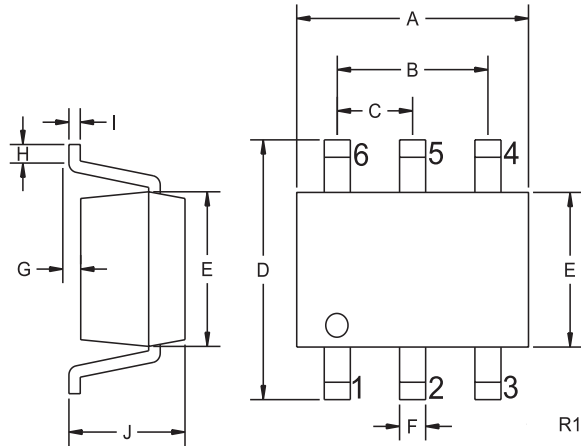
**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

	<u>SYMBOL</u>		<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
Continuous Forward Current	$I_F$	100	mA
Forward Power Dissipation	$P_D$	250	mW
Operating and Storage			
Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$	500	$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
$I_R$	$V_R=25\text{V}$			500	nA
$I_R$	$V_R=25\text{V}, T_A = 100^\circ\text{C}$			100	$\mu\text{A}$
$BV_R$	$I_R=100\mu\text{A}$	30			V
$V_F$	$I_F=2.0\text{mA}$			0.33	V
$V_F$	$I_F=15\text{mA}$			0.45	V
$V_F$	$I_F=100\text{mA}$		0.58	1.00	V
$C_T$	$V_R=1.0\text{V}, f=1.0\text{MHz}$		7.0		pF
$t_{rr}$	$I_F=I_R=10\text{mA}; I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

**SOT-363 CASE - MECHANICAL OUTLINE**

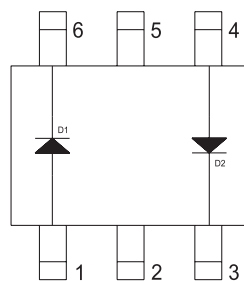


SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.073	0.085	1.85	2.15
B	0.051		1.30	
C	0.026		0.65	
D	0.075	0.091	1.90	2.30
E	0.043	0.055	1.10	1.40
F	0.006	0.012	0.15	0.30
G	0.000	0.004	0.00	0.10
H	0.010	-	0.25	-
I	0.004	0.010	0.10	0.25
J	0.031	0.039	0.80	1.00

**MARKING CODE: KDO**

SOT-363 (REV: R1)

**Dual Opposing Configuration**



**LEAD CODE:**

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

R0 ( 10-December 2001)