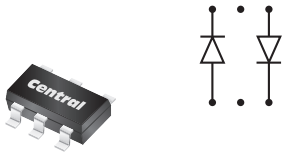
CMKSH-3DO

SURFACE MOUNT SILICON DUAL, OPPOSING SCHOTTKY DIODE



SOT-363 CASE

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMKSH-3DO incorporates two (2) 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: KDO

FEATURES:

- Dual Opposing (DO) Schottky Diodes
- Small SOT-363 Package
- Galvanically Isolated
- Low Forward Voltage (0.51V TYP @ 100mA)

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	I_F	100	mA
Power Dissipation	P_D	250	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

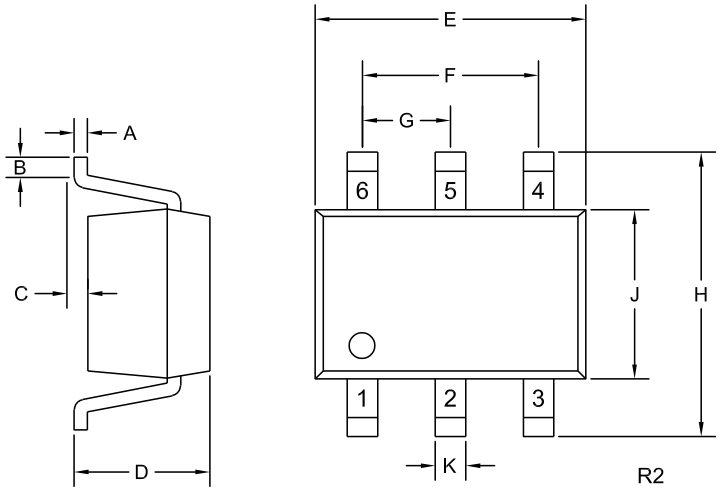
SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_R	V_R=25V			500	nA
I_R	V_R=25V, T_A=100°C			100	µA
BV_R	I_R=100µA	30			V
V_F	I_F=2.0mA			0.33	V
V_F	I_F=15mA			0.45	V
V_F	I_F=100mA		0.51	1.00	V
C_J	V_R=1.0V, f=1.0MHz		7.0		pF
t_{rr}	I_F=I_R=10mA, I_{rr}=1.0mA, R_L=100Ω			5.0	ns

R5 (11-February 2016)

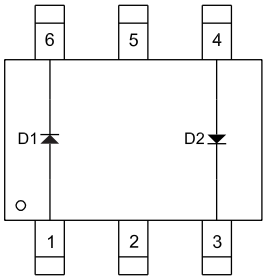
CMKSH-3DO

SURFACE MOUNT SILICON
DUAL, OPPOSING
SCHOTTKY DIODE

SOT-363 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:
1) Anode D1
2) NC
3) Cathode D2
4) Anode D2
5) NC
6) Cathode D1

MARKING CODE: KDO

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.004	0.010	0.10	0.25
B	0.005	-	0.12	-
C	0.000	0.004	0.00	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.075	0.091	1.90	2.30
J	0.043	0.055	1.10	1.40
K	0.006	0.012	0.15	0.30

SOT-363 (REV: R2)

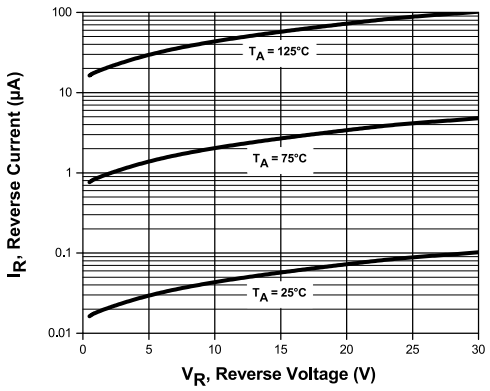
R5 (11-February 2016)

CMKSH-3DO

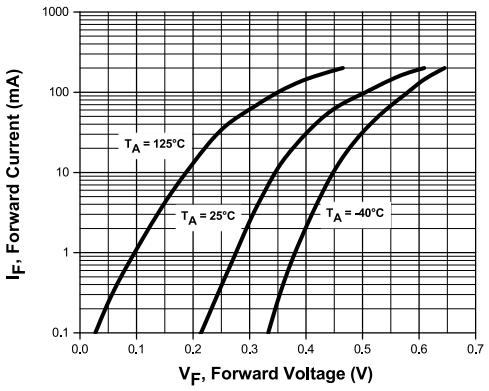
SURFACE MOUNT SILICON DUAL, OPPOSING SCHOTTKY DIODE

TYPICAL ELECTRICAL CHARACTERISTICS

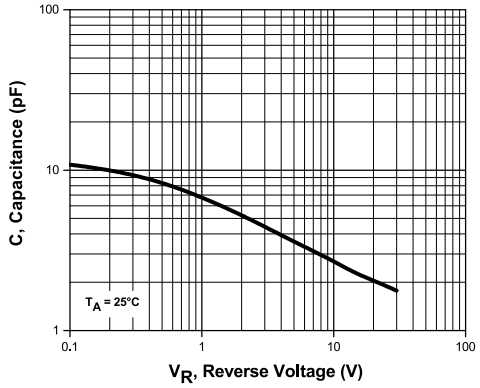
Leakage Current



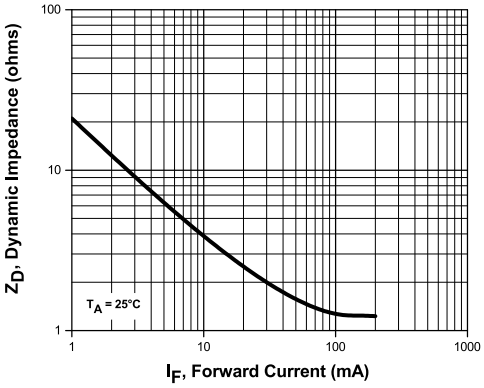
Forward Voltage



Capacitance



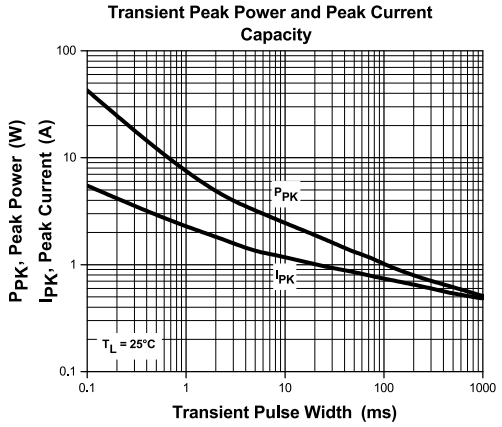
Forward Dynamic Impedance

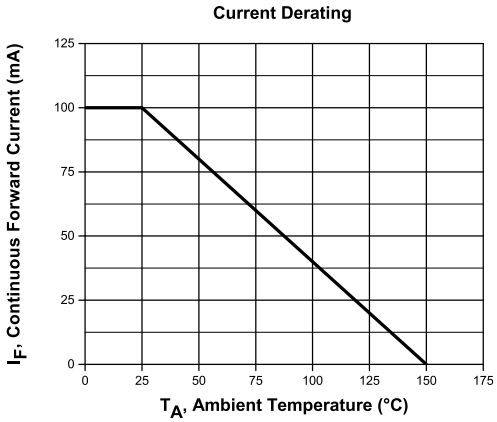


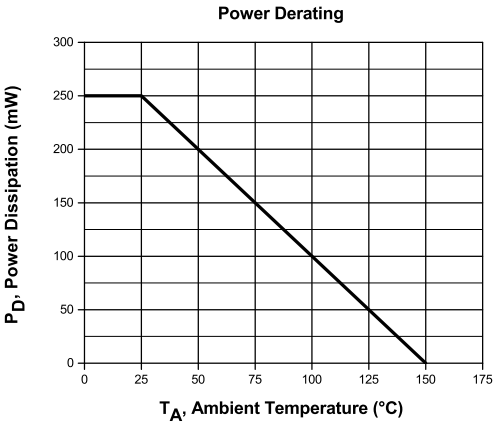
CMKSH-3DO

SURFACE MOUNT SILICON DUAL, OPPOSING SCHOTTKY DIODE

TYPICAL ELECTRICAL CHARACTERISTICS







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

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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