## SURFACE MOUNT SILICON **HIGH VOLTAGE SCHOTTKY DIODE**



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# **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMDD6263 is a High Voltage, low V<sub>F</sub>, silicon Schottky diode in a surface mount package, designed for fast switching applications requiring low forward voltage drop.

# **FEATURES:**

- High Voltage (70V)
- Low Forward Voltage



SOD-323 CASE

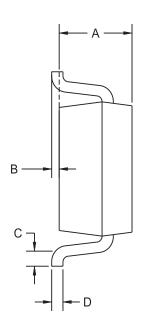
**MARKING CODE: D63** 

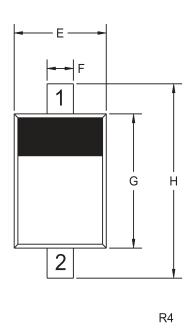
MAXIMUM R	ATINGS: (T <sub>A</sub> =25°C)	SYMBOL			UNITS
Peak Repetit	ve Reverse Voltage	$V_{RRM}$	7	0	V
Continuous F	orward Current	I <sub>F</sub>	1	5	mA
Peak Forward	d Surge Current, tp=1.0s	I <sub>FSM</sub>	5	0	mA
Power Dissipation		PD	250		mW
Operating and Storage Junction Temperature		T <sub>J</sub> , T <sub>stg</sub>	-65 to +150		°C
Thermal Res	istance	$\Theta_{\sf JA}$	5	00	°C/W
ELECTRICA	L CHARACTERISTICS: (T <sub>A</sub> =25°C)				
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	V <sub>R</sub> =50V		10	200	nA
$^{\rm BV}_{\rm R}$	I <sub>R</sub> =10μA	70			V
$V_{F}$	I <sub>F</sub> =1.0mA		395	410	mV
CJ	V <sub>R</sub> =0, f=1.0MHz			2.0	pF
t <sub>rr</sub>	$I_R = I_F = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω			5.0	ns

# SURFACE MOUNT HIGH VOLTAGE SILICON SCHOTTKY DIODE



# **SOD-323 CASE - MECHANICAL OUTLINE**





#### LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: D63

DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.031	0.039	0.80	1.00				
В	0.000	0.004	0.00	0.10				
С	0.008	-	0.20	-				
D	0.004	0.007	0.11	0.19				
Е	0.045	0.053	1.15	1.35				
F	_	0.014	-	0.35				
G	0.063	0.071	1.60	1.80				
Н	0.094	0.102	2.40	2.60				

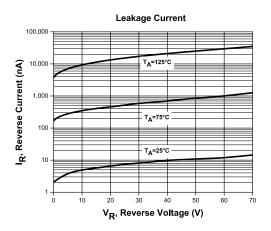
SOD-323 (REV: R4)

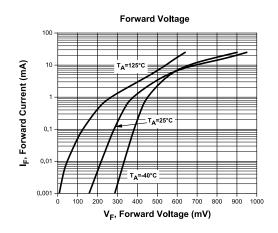
R4 (11-December 2015)

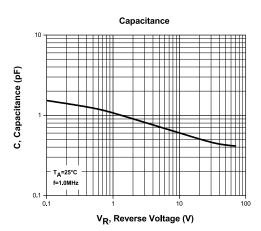
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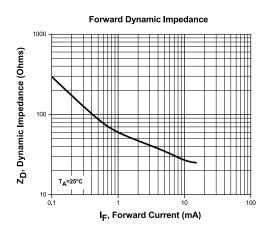


### TYPICAL ELECTRICAL CHARACTERISTICS





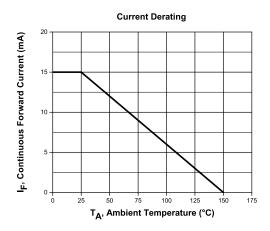


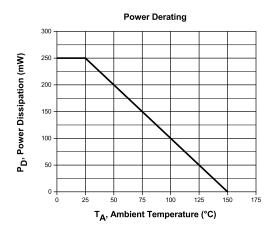






### TYPICAL ELECTRICAL CHARACTERISTICS





#### **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 guick 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

#### 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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