### SURFACE MOUNT SILICON HIGH VOLTAGE SCHOTTKY DIODE



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The CENTRAL SEMICONDUCTOR CMOD6263 is a high voltage silicon Schottky diode in an epoxy-molded package, designed for surface mount fast switching applications requiring a low forward voltage drop.

**MARKING CODE: 63** 



#### SOD-523 CASE

### **FEATURES:**

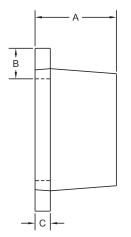
- High voltage
- Low forward voltage

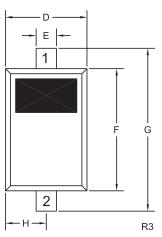
MAXIMUM F	RATINGS: (T <sub>A</sub> =25°C)	SYMBOL			UNITS
	ive Reverse Voltage	V <sub>RRM</sub>	70		V
Continuous F	Forward Current	I <sub>E</sub>	1	5	mA
Peak Forwar	d Surge Current, tp=1.0s	I <sub>FSM</sub>	5	0	mA
Power Dissip	pation	PD	2	50	mW
Operating and Storage Junction Temperature		T <sub>J</sub> , T <sub>stg</sub>	-65 to +150		°C
Thermal Resistance		$\Theta_{JA}$	500		°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
$BV_R$	I <sub>R</sub> =10μA	70			V
V <sub>F</sub>	I <sub>F</sub> =1.0mA		395	410	mV
CJ	$V_R=0$ , 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 SILICON HIGH VOLTAGE **SCHOTTKY DIODE**



# **SOD-523 CASE - MECHANICAL OUTLINE**





# LEAD CODE:

- 1) Cathode 2) Anode

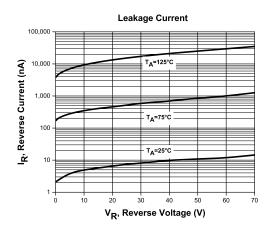
**MARKING CODE: 63** 

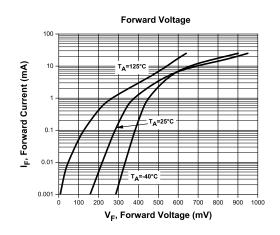
DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.020	0.031	0.50	0.80				
В	0.008	0.016	0.20	0.40				
С	0.002	0.008	0.05	0.20				
D	0.028	0.035	0.70	0.90				
E	0.008	0.014	0.20	0.35				
F	0.039	0.055	1.00	1.40				
G	0.055	0.071	1.40	1.80				
Н	0.016		0.40					
SOD-523 (REV: R3)								

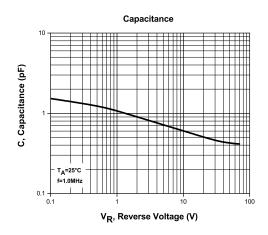
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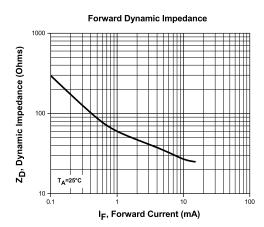


### TYPICAL ELECTRICAL CHARACTERISTICS





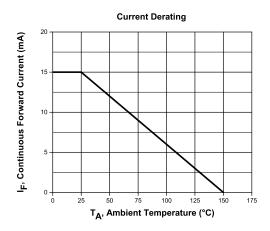


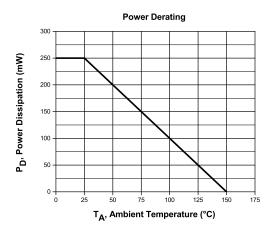






### TYPICAL ELECTRICAL CHARACTERISTICS





#### **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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