

CMUD6263E CMUD6263CE  
 CMUD6263AE CMUD6263SE

**ENHANCED SPECIFICATION  
 SURFACE MOUNT SILICON  
 SCHOTTKY DIODES**



SOT-523 CASE



www.centrasemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMUD6263E series devices are Enhanced High Voltage silicon Schottky diodes, epoxy molded in an SOT-523 surface mount package, designed for low current fast switching applications requiring a low forward voltage drop.

**ENHANCED SPECIFICATIONS:**

- ◆  $I_F = 70\text{mA}$  (from 15mA)
- ◆  $I_{FSM} = 100\text{mA}$  (from 50mA)

The following configurations are available:

CMUD6263E SINGLE  
 CMUD6263AE DUAL, COMMON ANODE  
 CMUD6263CE DUAL, COMMON CATHODE  
 CMUD6263SE DUAL, IN SERIES

MARKING CODE: C63  
 MARKING CODE: C6A  
 MARKING CODE: C6C  
 MARKING CODE: C6S

**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		UNITS
$V_{RRM}$	70	V
$I_F$	70	mA
$I_{FSM}$	100	mA
$P_D$	250	mW
$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
$\theta_{JA}$	500	$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
◆ $I_R$	$V_R=50\text{V}$		10	100	nA
$BV_R$	$I_R=10\mu\text{A}$	70			V
◆◆ $V_F$	$I_F=100\mu\text{A}$		290	320	mV
◆◆ $V_F$	$I_F=500\mu\text{A}$		345	380	mV
◆ $V_F$	$I_F=1.0\text{mA}$		380	400	mV
◆◆ $V_F$	$I_F=10\text{mA}$		700	750	mV
◆◆ $V_F$	$I_F=15\text{mA}$		830	900	mV
$C_J$	$V_R=0, f=1.0\text{MHz}$			2.0	pF
$t_{rr}$	$I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

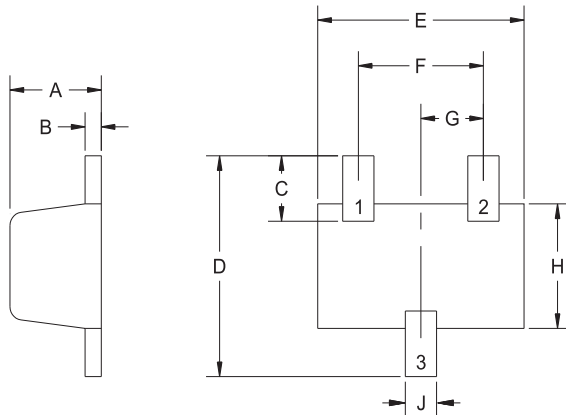
- ◆ Enhanced specification
- ◆◆ Additional Enhanced specification

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**SOT-523 CASE - MECHANICAL OUTLINE**



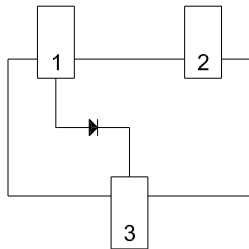
(Bottom View)

R2

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.023	0.031	0.58	0.78
B	0.002	0.008	0.04	0.20
C	0.013	0.021	0.34	0.54
D	0.059	0.067	1.50	1.70
E	0.059	0.067	1.50	1.70
F	0.035	0.043	0.90	1.10
G	0.020		0.50	
H	0.031	0.039	0.78	0.98
J	0.010	0.014	0.25	0.35

SOT-523 (REV: R2)

**PIN CONFIGURATIONS**

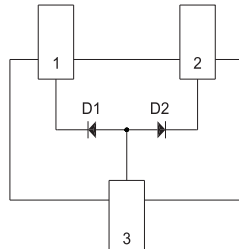


**CMUD6263E**

**LEAD CODE:**

- 1) Anode
- 2) No Connection
- 3) Cathode

**MARKING CODE: C63**

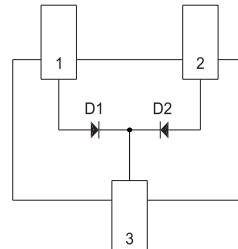


**CMUD6263EA**

**LEAD CODE:**

- 1) Cathode D1
- 2) Cathode D2
- 3) Anode D1, D2

**MARKING CODE: C6A**

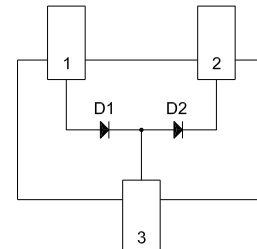


**CMUD6263EC**

**LEAD CODE:**

- 1) Anode D1
- 2) Anode D2
- 3) Cathode D1, D2

**MARKING CODE: C6C**



**CMUD6263ES**

**LEAD CODE:**

- 1) Anode D1
- 2) Cathode D2
- 3) Anode D2, Cathode D1

**MARKING CODE: 6CS**

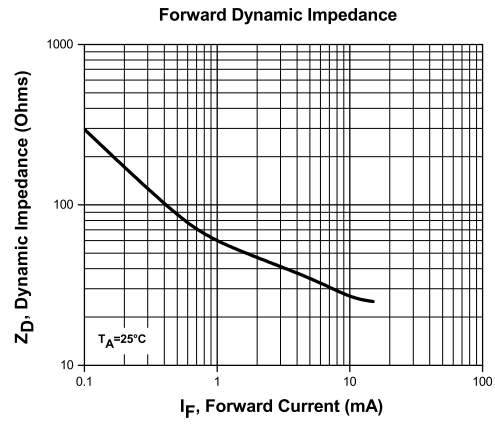
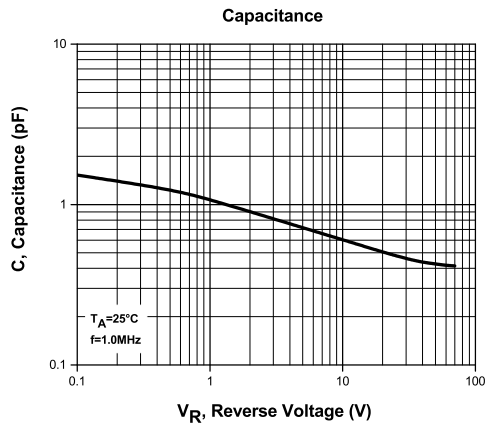
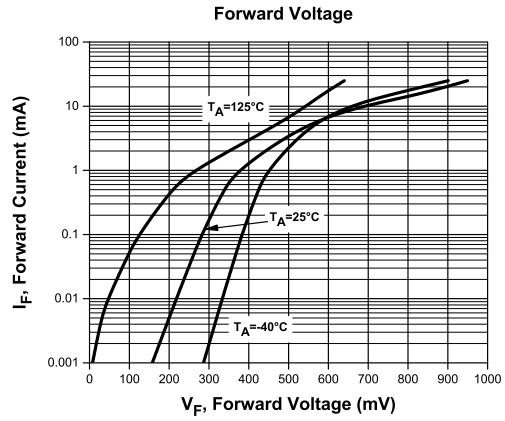
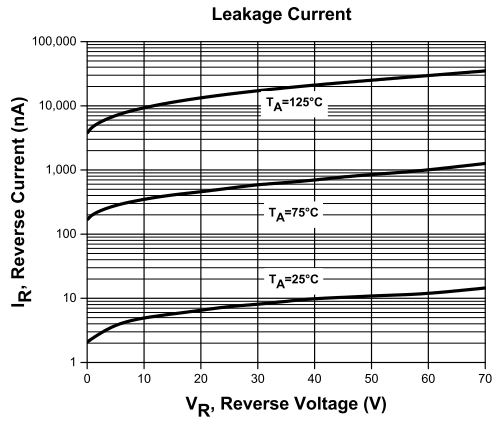
R3 (11-December 2015)

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**TYPICAL ELECTRICAL CHARACTERISTICS**



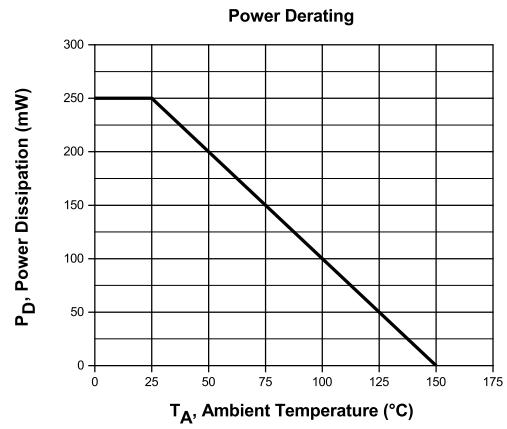
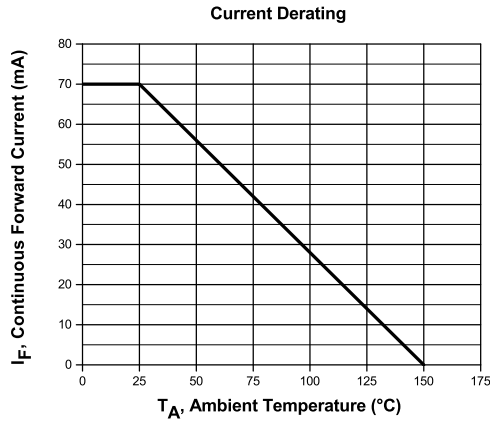
R3 (11-December 2015)

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### TYPICAL ELECTRICAL CHARACTERISTICS



R3 (11-December 2015)

## 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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### 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).

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### CONTACT US

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