

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	$^\circ\text{C}$
θ_{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

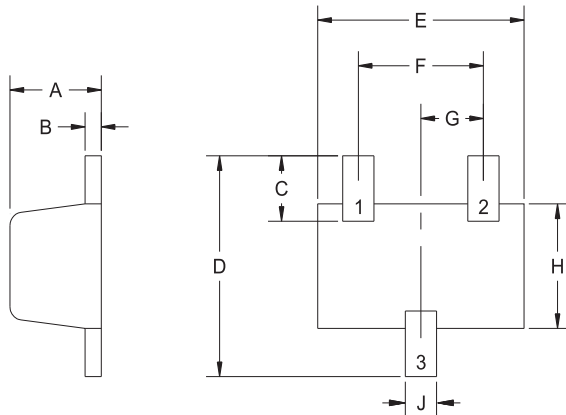
- ◆ Enhanced specification
- ◆◆ Additional Enhanced specification

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SOT-523 CASE - MECHANICAL OUTLINE



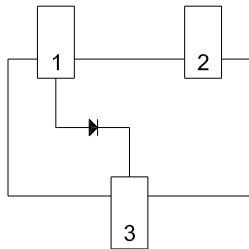
(Bottom View)

SYMBOL	DIMENSIONS		MILLIMETERS	
	INCHES		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

R2

SOT-523 (REV: R2)

PIN CONFIGURATIONS

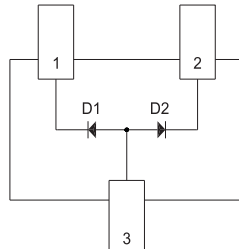


CMUD6263E

LEAD CODE:

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

MARKING CODE: C63

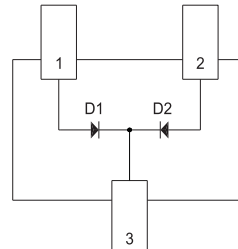


CMUD6263AE

LEAD CODE:

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

MARKING CODE: C6A

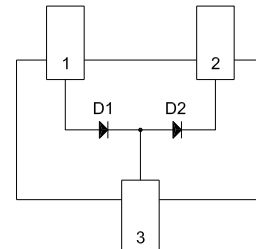


CMUD6263CE

LEAD CODE:

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

MARKING CODE: C6C



CMUD6263SE

LEAD CODE:

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

MARKING CODE: 6CS

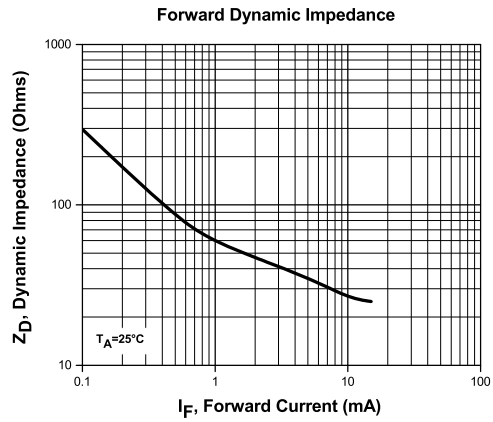
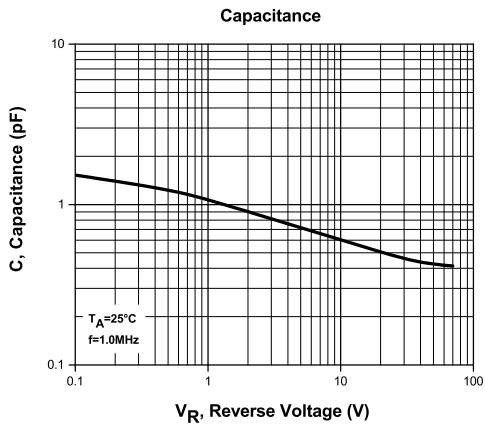
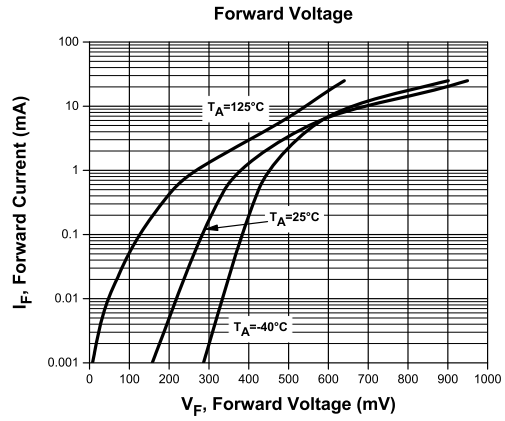
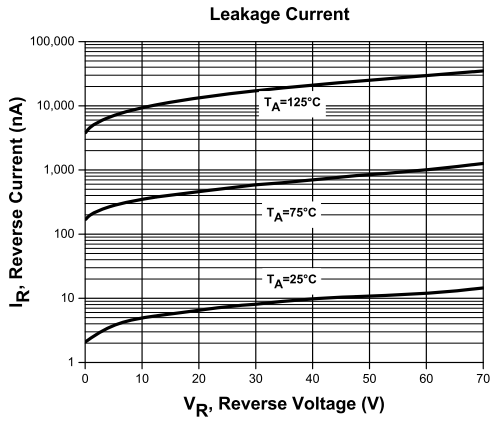
R4 (18-September 2020)

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TYPICAL ELECTRICAL CHARACTERISTICS



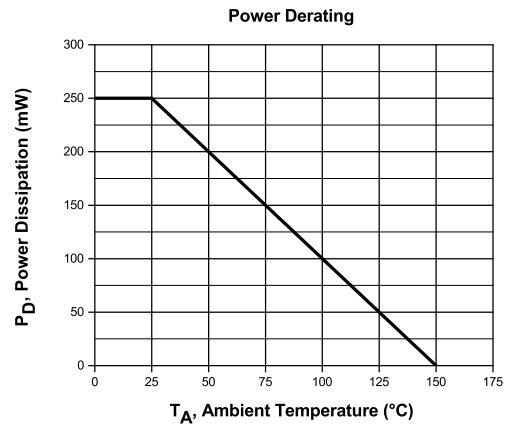
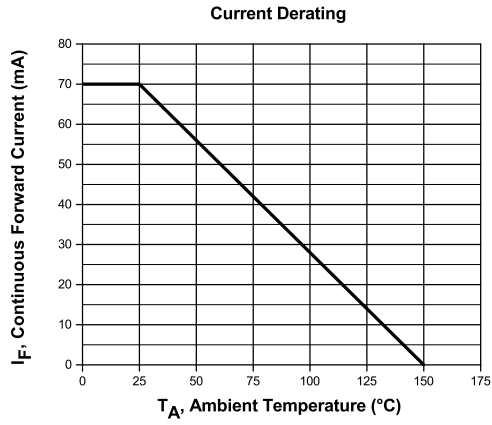
R4 (18-September 2020)

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TYPICAL ELECTRICAL CHARACTERISTICS



R4 (18-September 2020)

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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