CMSD6263
CMSD6263A
CMSD6263C
CMSD6263S

SURFACE MOUNT SUPERmini™ SILICON SCHOTTKY DIODES

Central™
Semiconductor Corp.

SUPERmini™

SOT-323 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSD6263 Series types are High Voltage Silicon Schottky diodes, epoxy molded in a SUPERmini™ surface mount package, designed for low current fast switching applications requiring a low forward voltage drop.
The following configurations are available:

MARKING CODE:

CMSD6263	SINGLE	**76D**
CMSD6263A	DUAL, COMMON ANODE	**98D**
CMSD6263C	DUAL, COMMON CATHODE	**97D**
CMSD6263S	DUAL, IN SERIES	**96D**

MAXIMUM RATINGS: $(T_A=25°C)$

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	15	mA
Forward Surge Current, tp=1.0 s	I_{FSM}	50	mA
Power Dissipation	P_D	275	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	455	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: $(T_A=25°C)$

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
BV_R	$I_R=10\mu A$	70			V
V_F	$I_F=1.0mA$		395	410	mV
I_R	$V_R=50V$		98	200	nA
C_T	$V_R=0V, f=1.0MHz$			2.0	pF
t_{rr}	$I_R=I_F=10mA, Irr=1mA, R_L=100\Omega$			5.0	ns

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SILICON SCHOTTKY DIODES

SOT-323 CASE - MECHANICAL OUTLINE
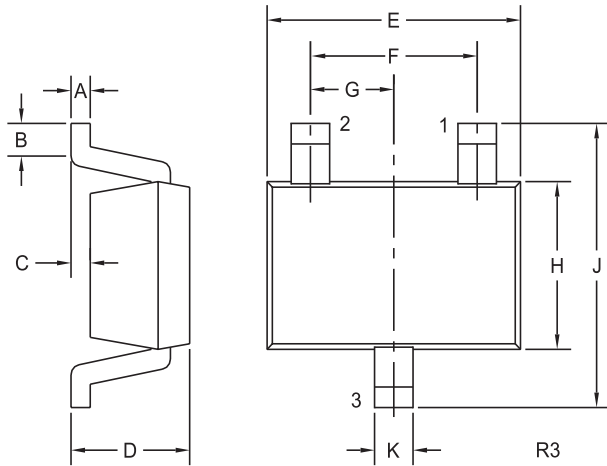
DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.002	0.008	0.05	0.20
B	0.004	-	0.10	-
C	-	0.004	-	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

SOT-323 (REV: R3)

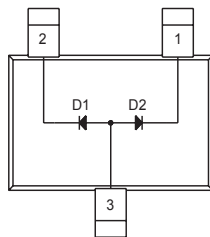## PIN CONFIGURATIONS
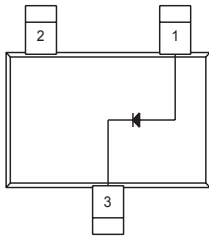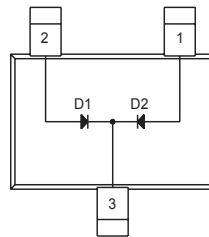
CMSD6263

1) Anode
2) No Connection
3) Cathode

MARKING CODE:
76D
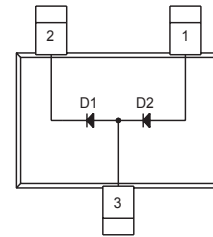
CMSD6263A

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

MARKING CODE:
98D

CMSD6263C

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

MARKING CODE:
97D

CMSD6263S

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

MARKING CODE:
96D

R2 (4-January 2004)