

CMSD6263
CMSD6263A
CMSD6263C
CMSD6263S

**SUPERmini™ SURFACE MOUNT
SCHOTTKY DIODES**

SUPERmini™



SOT-323 CASE

Central™
Semiconductor Corp.

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: ($T_A=25^\circ\text{C}$)

SYMBOL

UNITS

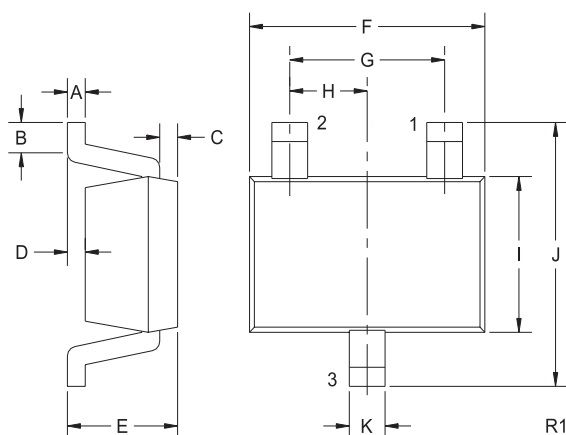
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	15	mA
Forward Surge Current, $t_p=1.0$ s	I_{FSM}	50	mA
Power Dissipation	P_D	350	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$
Thermal Resistance	Θ_{JA}	357	$^\circ\text{C/W}$

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

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

R0 (11-September 2001)

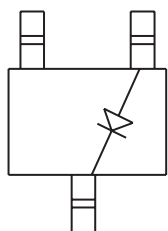
SOT-323 CASE - MECHANICAL OUTLINE



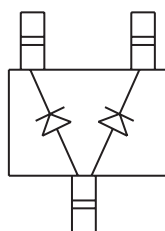
SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.008	0.10	0.20
B	0.004	-	0.10	-
C	0.004	0.008	0.10	0.20
D	-	0.004	-	0.10
E	0.031	0.043	0.80	1.10
F	0.071	0.087	1.80	2.20
G	0.051		1.30	
H	0.026		0.65	
I	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

SOT-323 (REV: R1)

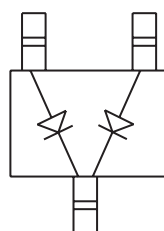
CONFIGURATIONS



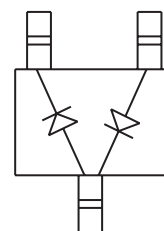
CMSD6263



CMSD6263A



CMSD6263C



CMSD6263S