CMAD6263

SURFACE MOUNT
HIGH VOLTAGE
SILICON SCHOTTKY DIODE

FEMTOmini™

SOD-923 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMAD6263 is a high voltage Schottky Diode designed for applications where very small size and operational efficiency are prime requirements.

MARKING CODE: J

APPLICATIONS:

- DC / DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered applications including Cell Phones, Digital Cameras, Pagers, PDAs, Laptop,Computers, etc.

FEATURES:

- Current (I_F=15mA)
- Low Forward Voltage Drop (V_F=0.395V TYP @ 1.0mA)
- Low Reverse Current (98nA TYP @ 50V)
- Extremely Fast Switching (5ns Max)
- Miniture, 0.8 x 0.6 x 0.4mm, ultra low height profile **FEMTO**mini™ Surface Mount Package.

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	70	V
Continuous Forward Current	I_F	15	mA
Peak Forward Surge Current, tp=1.0s	I_{FSM}	50	mA
Power Dissipation	P_D	100	mW
Operating Junction Temperature	T_J	-65 to +125	°C
Storage Temperature	T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	1000	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

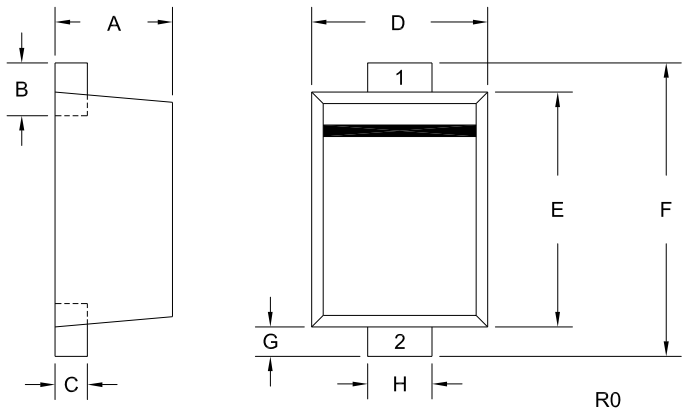
SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_R	V_R=50V		98	200	nA
BV_R	I_R=10μA	70			V
V_F	I_F=1.0mA		395	410	mV
C_T	V_R=0, f=1.0MHz			2.0	pF
t_{rr}	I_R=I_F=10mA, I_{rr}=1.0mA, R_L=100Ω			5.0	ns

R1 (26-May 2010)

CMAD6263

SURFACE MOUNT
HIGH VOLTAGE
SILICON SCHOTTKY DIODE

SOD-923 CASE - MECHANICAL OUTLINE



LEAD CODE:
1) CATHODE
2) ANODE

MARKING CODE: J

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.015	0.016	0.39	0.41
B	0.004	0.010	0.10	0.26
C	0.003	0.006	0.08	0.14
D	0.022	0.026	0.55	0.65
E	0.030	0.033	0.75	0.85
F	0.035	0.043	0.90	1.10
G	0.002	0.006	0.05	0.15
H	0.007	0.011	0.17	0.27

SOD-923 (REV: R0)