CMDSH-3

SUPERmini™
SCHOTTKY DIODE

SUPERmini™

SOD-323 CASE

Central™
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH-3 type is a Silicon Schottky diode, manufactured in a SUPERmini™ surface mount package, designed for fast switching applications requiring a low forward voltage drop.

MARKING CODE: S1

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Forward Current	I_O	100	mA
Forward Surge Current, tp=10ms	I_{FSM}	750	mA
Power Dissipation	P_D	250	mW
Power Dissipation (T_L=25°C)	P_D	833	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W
Thermal Resistance	Θ_{JL}	150	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
BV_R	I_F=100μA	30			V
V_F	I_F=2.0mA		0.30		V
V_F	I_F=15mA		0.36		V
V_F	I_F=50mA		0.47	0.55	V
V_F	I_F=100mA		0.58	0.80	V
I_R	V_R=25V			1.0	μA
C_T	V_R=10V, f=1.0 MHz		7.0		pF

R5 (31-October 2002)

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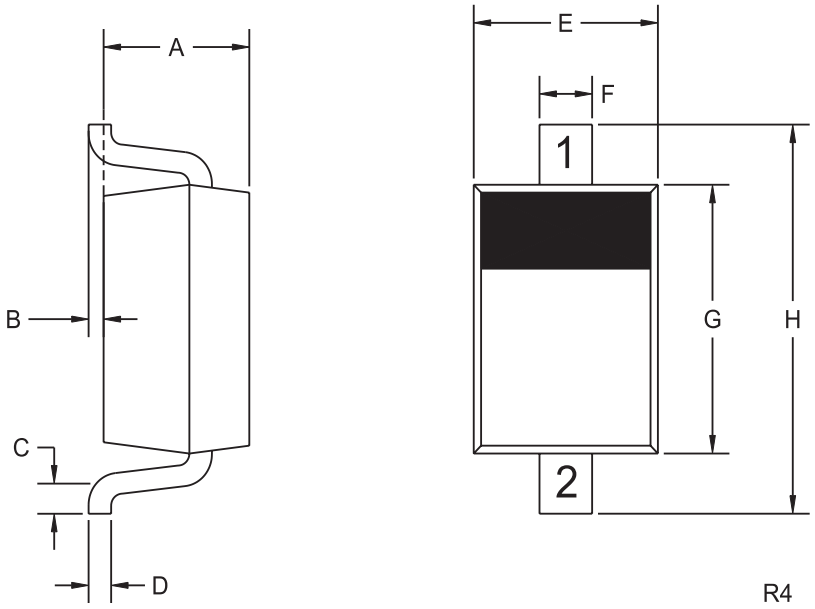
MECHANICAL OUTLINE - SOD-323



R4

LEAD CODE:
1) CATHODE
2) ANODE

MARKING CODE: S1

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	0.000	0.004	0.00	0.10
C	0.008	-	0.20	-
D	0.004	0.007	0.11	0.19
E	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
H	0.094	0.102	2.40	2.60

SOD-323 (REV: R4)

R5 (31-October 2002)