

CMDSH05-4
SURFACE MOUNT
SUPERmini™
LOW V_F
SILICON SCHOTTKY DIODE

SUPERmini™



SOD-323 CASE

Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH05-4 is a 40 volt Schottky Diode packaged in a space saving surface mount SOD-323 case. This SUPERmini™ device has been designed for applications requiring a low forward voltage drop.

MARKING CODE: C55

MAXIMUM RATINGS: (T_A=25°C)

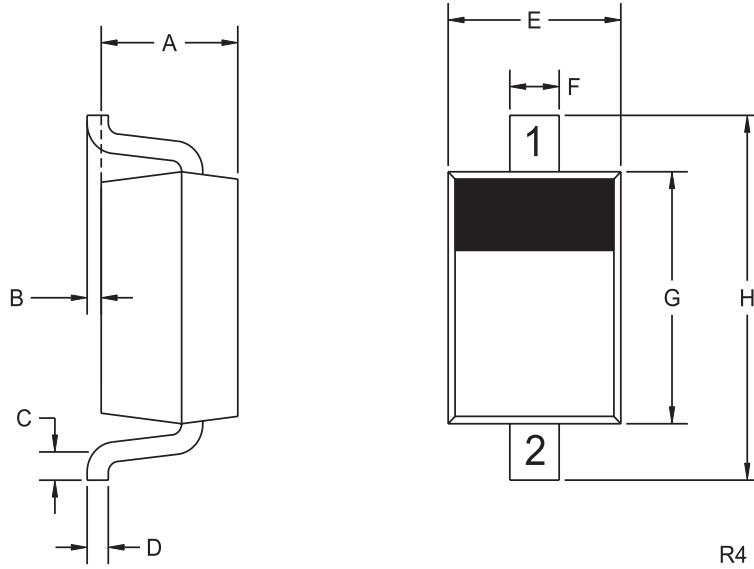
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Continuous Forward Current	I _F	500	mA
Peak Repetitive Forward Current, tp ≤ 1ms	I _{FRM}	3.5	A
Forward Surge Current, tp=8ms	I _{FSM}	10	A
Power Dissipation	P _D	250	mW
Operating and Storage			
Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R = 10V		20	μA
I _R	V _R = 30V		100	μA
BV _R	I _R = 500μA	40		V
V _F	I _F = 100μA		0.13	V
V _F	I _F = 1.0mA		0.21	V
V _F	I _F = 10mA		0.27	V
V _F	I _F = 100mA		0.35	V
V _F	I _F = 500mA		0.47	V
C _T	V _R = 1.0V, f=1.0 MHz		50	pF

R0 (07-September 2004)

SOD-323 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) CATHODE
- 2) ANODE

MARKING CODE: C55

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	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)