CMHSH5-4

SURFACE MOUNT
SCHOTTKY RECTIFIER
500mA, 40 VOLTS

SOD-123 CASE

Central™
Semiconductor Corp.

DESCRIPTION:
The CENTRAL SEMICONDUCTOR CMHSH5-4 type is a Silicon Schottky Rectifier, epoxy molded in a surface mount package, designed for high current, fast switching applications requiring a low forward voltage drop.

MARKING CODE: C54

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

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Peak Working Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R	40	V
Average Rectified Current	I_O	500	mA
Peak Repetitive Forward Current (@ rated V_R, square wave, 20kHz, T_C=115°C)	I_{FRM}	1.0	A
Peak Forward Surge Current (@ rated load, halfwave, single phase, 60Hz)	I_{FSM}	5.5	A
Junction Temperature	T_J	-65 to +125	°C
Storage Temperature	T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JL}	118	°C/W
Thermal Resistanc	Θ_{JA}	206	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	V_R=20V			10	μA
I_R	V_R=20V, T_A=100°C			5.0	mA
I_R	V_R=40V			20	μA
I_R	V_R=40V, T_A=100°C			13	mA
V_F	I_F=500mA			510	mV
V_F	I_F=500mA, T_A=100°C			460	mV
V_F	I_F=1.0A			620	mV
V_F	I_F=1.0A, T_A=100°C			610	mV
C_T	V_R=4.0V, f=1.0MHz		50		pF

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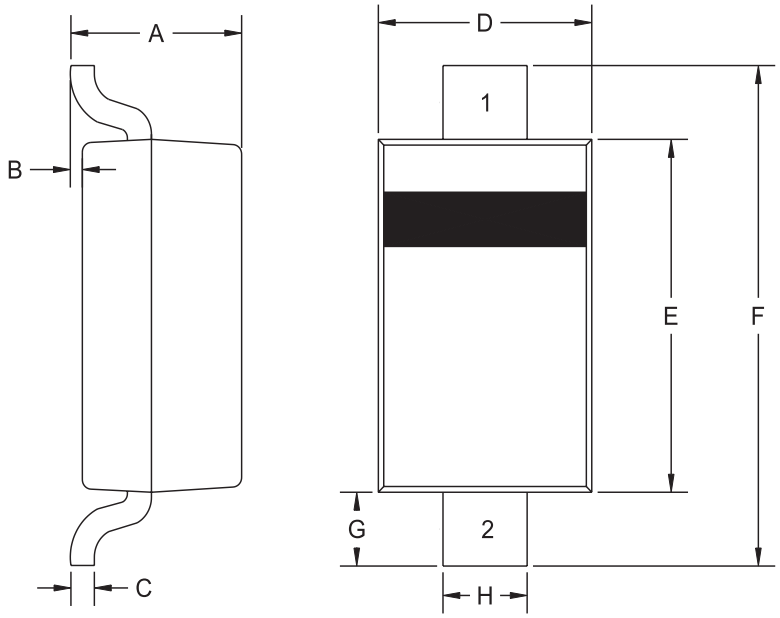
SOD-123 CASE - MECHANICAL OUTLINE



R4

LEAD CODE:
1) CATHODE
2) ANODE

MARKING CODE: C54

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	0.000	0.005	0.00	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.110	2.50	2.80
F	0.142	0.154	3.60	3.90
G	0.016	-	0.40	-
H	0.020	0.028	0.50	0.70

SOD-123 (REV:R4)

R3 (31-October 2002)