CZSH10-40C

SURFACE MOUNT
DUAL, COMMON CATHODE SILICON
SCHOTTKY POWER RECTIFIER
10 AMP, 40 VOLTS



SOT-223 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZSH10-40C is manufactured with two 5 Amp Schottky rectifiers assembled in a common cathode configuration and packaged in a SOT-223 case. This device has been designed for use in all types of commercial, industrial, entertainment, computer and automotive applications which require a high current device.

MARKING: FULL PART NUMBER

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

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Forward Current (T_A=75°C)	I_O	10	A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}	125	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C

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

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	V_R=40V	3.0	mA
I_R	V_R=40V, T_A=100°C	20	mA
V_F	I_F=5.0A	0.55	V
V_F*	I_F=10A	0.60	V

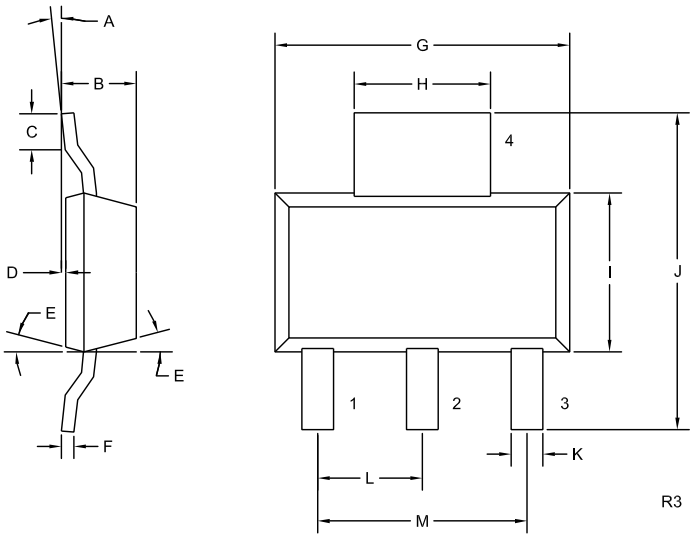
* With pin 1 and pin 3 connected together.

R0 (22-November 2010)

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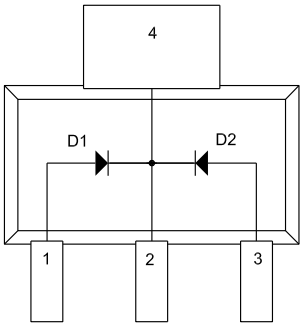
SOT-223 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0°	10°	0°	10°
B	0.059	0.071	1.50	1.80
C	0.018	—	0.45	—
D	0.000	0.004	0.00	0.10
E	15°		15°	
F	0.009	0.014	0.23	0.35
G	0.248	0.264	6.30	6.70
H	0.114	0.122	2.90	3.10
I	0.130	0.146	3.30	3.70
J	0.264	0.287	6.70	7.30
K	0.024	0.033	0.60	0.85
L	0.091		2.30	
M	0.181		4.60	

SOT-223 (REV: R3)

PIN CONFIGURATION



LEAD CODE:
1) Anode D1
2) Cathode D1, D2
3) Anode D2
4) Cathode D1, D2
Pin 2 and Pin 4 are common.

MARKING:
FULL PART NUMBER

R0 (22-November 2010)