

CZSH10-40C

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



SOT-223 CASE



www.centralemi.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: ($T_A=25^{\circ}\text{C}$ 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 ($T_A=75^{\circ}\text{C}$)	I_O	10	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}	125	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	$V_R=40\text{V}$	3.0	mA
I_R	$V_R=40\text{V}, T_A=100^{\circ}\text{C}$	20	mA
V_F	$I_F=5.0\text{A}$	0.55	V
V_F^*	$I_F=10\text{A}$	0.60	V

* With pin 1 and pin 3 connected together.

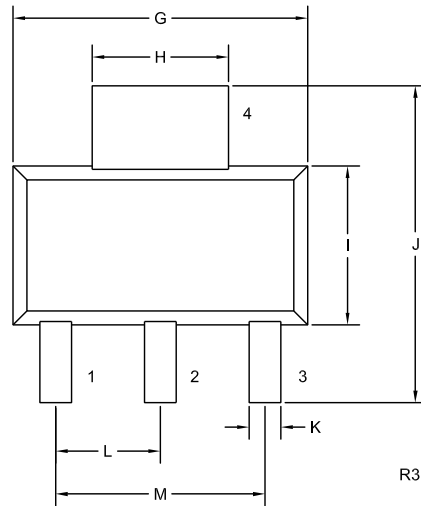
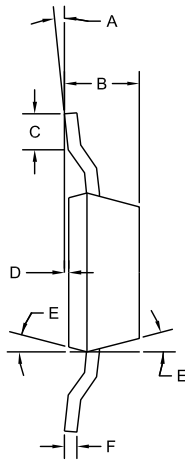
R0 (22-November 2010)

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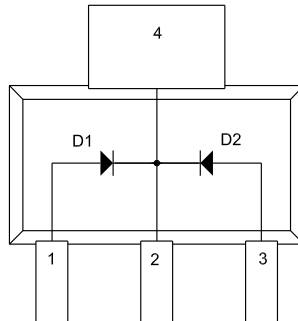
SOT-223 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	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)