

CZSH10-40CN

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



SOT-223C CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZSH10-40CN is a dual common cathode 10 Amp surface mount silicon Schottky rectifier package in a SOT-223C case. The new SOT-223C case has a cut center lead for optional mounting pad connection of the two anodes for use as a single 10 Amp device. 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: CZSH10-40C

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

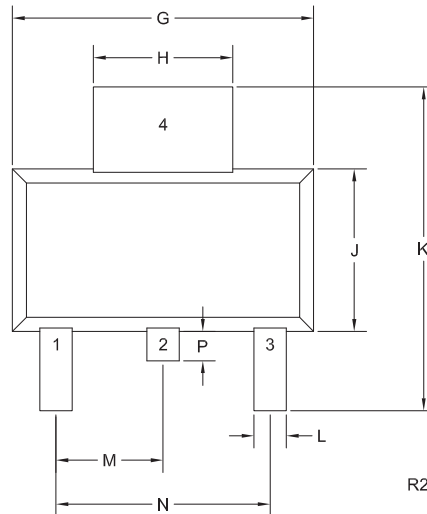
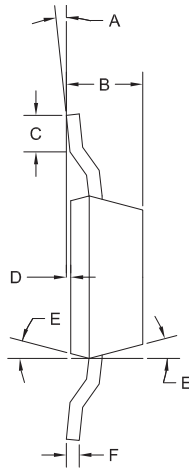
* With pin 1 and pin 3 connected together.

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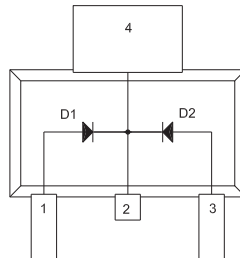
SOT-223C CASE - MECHANICAL OUTLINE



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
J	0.130	0.146	3.30	3.70
K	0.264	0.287	6.70	7.30
L	0.024	0.033	0.60	0.85
M	0.091		2.30	
N	0.181		4.60	
P	-	0.025	-	0.64

SOT-223C (REV: R2)

PIN CONFIGURATION

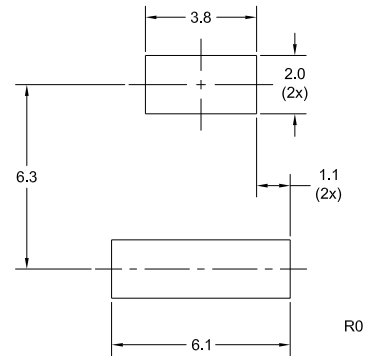


LEAD CODE:

- 1) Anode D1
 - 2) Cathode D1, D2
 - 3) Anode D2
 - 4) Cathode D1, D2
- Pin 2 and Pin 4 are common.

MARKING: CZSH10-40C

OPTIONAL MOUNTING PADS For Single 10 Amp Configuration (Dimensions in mm)



R4 (9-October 2013)

Mouser Electronics

Authorized Distributor

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Central Semiconductor:

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