

CZSH10-40CN

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



www.centralsemi.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.



SOT-223C CASE

MARKING: CZSH10-40C

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, t _p =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

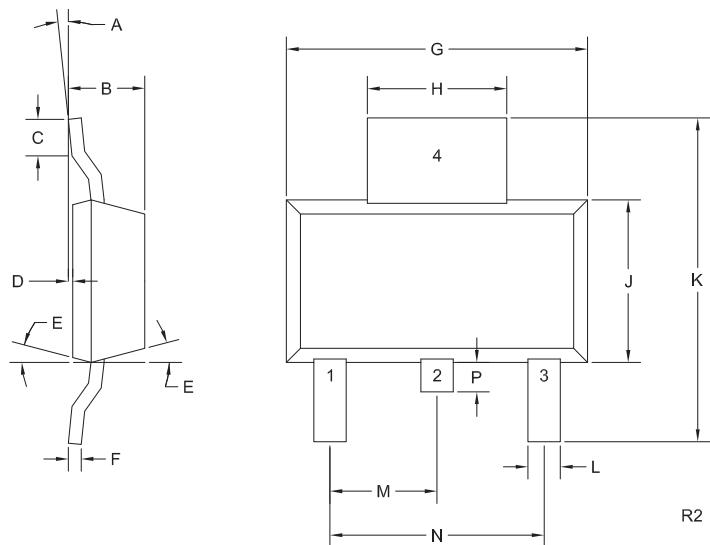
* With pin 1 and pin 3 connected together.

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Central
Semiconductor Corp.

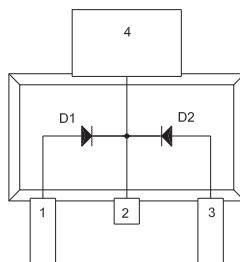
SOT-223C CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES	MILLIMETERS	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



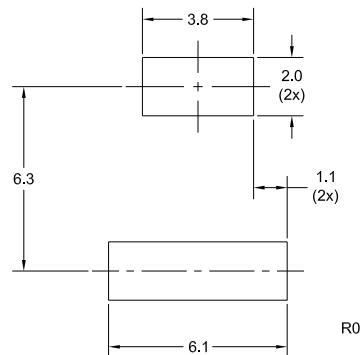
LEAD CODE:

- 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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