

CMSH2-20L
CMSH2-40L

SURFACE MOUNT SILICON
LOW V_F
SCHOTTKY RECTIFIERS
2.0 AMP, 20 AND 40 VOLT

LOW
 V_F



SMB CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH2-20L and CMSH2-40L 2.0 Amp surface mount low V_F Schottky rectifiers are highly reliable components designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where high efficiency is required.

**MARKING CODES: CMSH2-20L: CS220L
CMSH2-40L: CS240L**

FEATURES:

- Low forward voltage drop
- Flammability classification UL94V-0
- High current capability
- High reliability

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CMSH2-20L	CMSH2-40L	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	V
DC Blocking Voltage	V_R	20	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	V
Average Forward Current ($T_L=105^\circ\text{C}$)	I_O		2.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		50	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150		$^\circ\text{C}$
Thermal Resistance	θ_{JL}	20		$^\circ\text{C/W}$

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

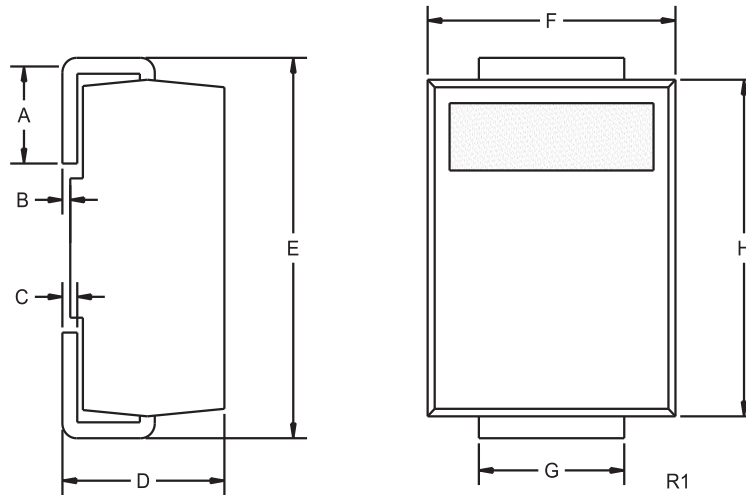
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		0.50	mA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$		20	mA
V_F	$I_F=2.0\text{A}$ (CMSH2-20L)	0.39	0.40	V
V_F	$I_F=2.0\text{A}$ (CMSH2-40L)	0.34	0.40	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-20L)	386		pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-40L)	200		pF

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SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH2-20L	CS220L
CMSH2-40L	CS240L

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.006	0.012	0.15	0.30
D	0.086	0.096	2.18	2.44
E	0.200	0.220	5.08	5.59
F	0.130	0.150	3.30	3.81
G	0.077	0.083	1.96	2.11
H	0.160	0.180	4.06	4.57

SMB (REV: R1)

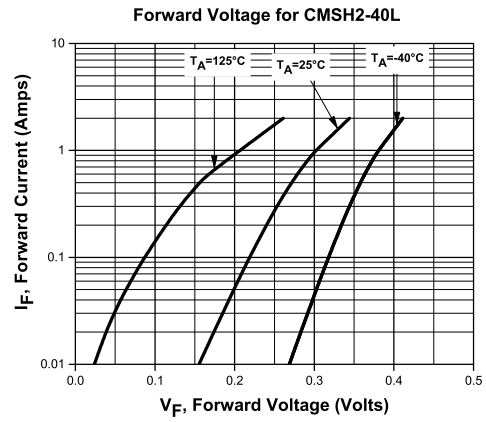
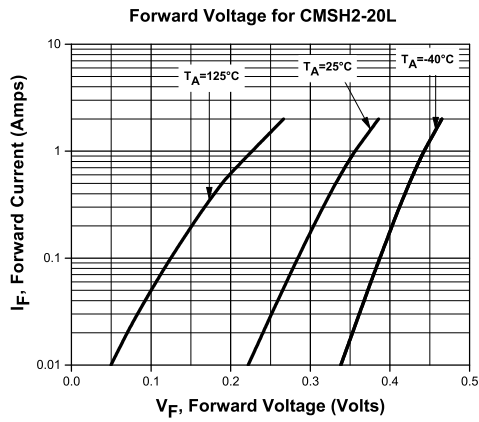
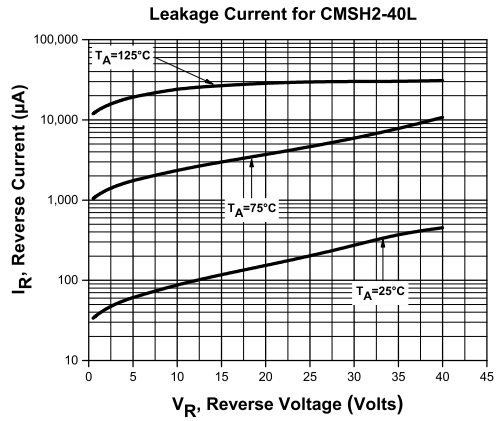
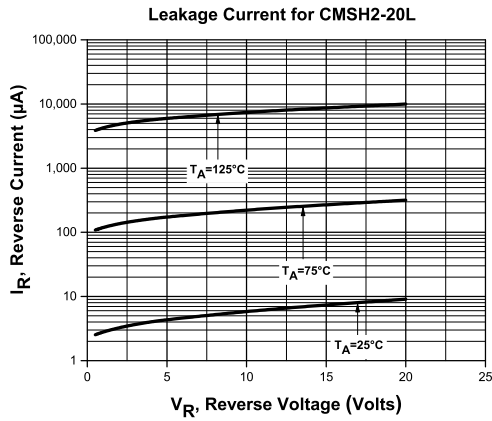
R4 (10-December 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



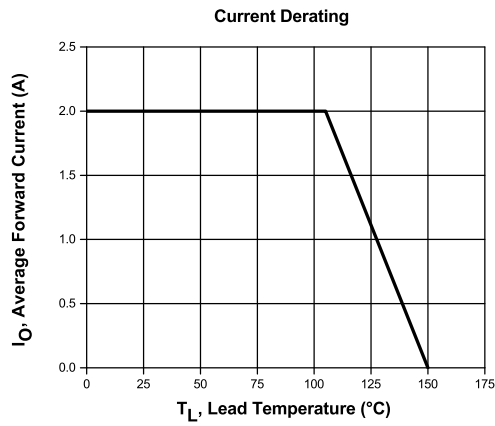
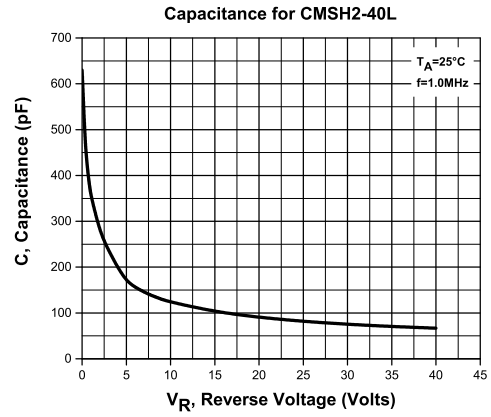
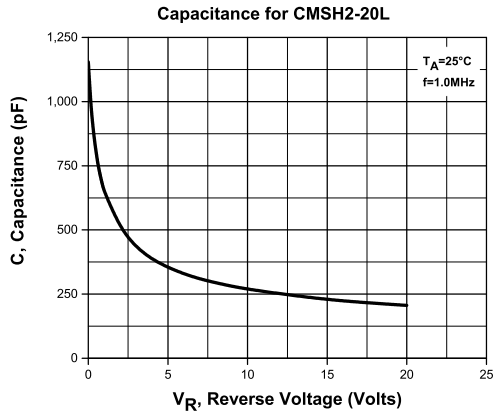
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TYPICAL ELECTRICAL CHARACTERISTICS



R4 (10-December 2015)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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