SURFACE MOUNT SILICON LOW V_F SCHOTTKY RECTIFIERS 4.0 AMP, 20 AND 40 VOLT





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-20L and CMSH3-40L 4.0 Amp surface mount low V_{F} silicon 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: CMSH3-20L: CS320L

CMSH3-40L: CS340L

FEATURES:

- 4.0 Amp average forward current (upgraded from 3.0 Amps)
- · Low forward voltage drop
- · High current capability
- Flammability classification UL94V-0

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

	SYMBOL	CMSH3-20L	CMSH3-40L	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 =90°C)	IO	4	.0	Α
* Peak Forward Surge Current, tp=8.3ms	I _{FSM}	1	50	Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
Thermal Resistance	Θπ	1	4	°C/W

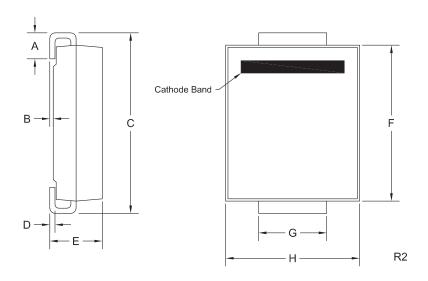
ELECTRIC	AL CHARACTERISTICS: (T _A =25°C un	less otherwise no	oted)	
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		0.50	mA
I_{R}	V _R =Rated V _{RRM,} T _A =100°C		35	mA
* V _F	I _F =4.0A (CMSH3-20L)	0.38	0.42	V
* V _F	I _F =4.0A (CMSH3-40L)	0.40	0.44	V
V_{F}	I _F =3.0A (CMSH3-20L)	0.36	0.38	V
V_{F}	I _F =3.0A (CMSH3-40L)	0.37	0.40	V
CJ	V_R =0, f=1.0MHz (CMSH3-20L)	797		pF
CJ	V_R =0, f=1.0MHz (CMSH3-40L)	787		pF

^{*} Upgraded Specification

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SMC CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH3-20L	CS320L
CMSH3-40L	CS340L

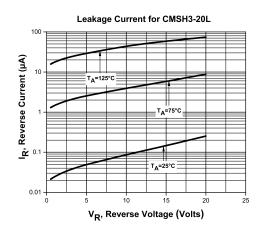
MILL AX MIN 60 0.76 08 0.05	0.20
60 0.76	1.52 0.20
	0.20
0.05	
20 7.75	8.13
12 0.15	0.31
03 2.00	2.62
80 6.60	7.11
28 2.75	3.25
	6.22
	80 6.60

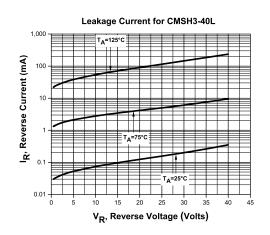
SMC (REV: R2)

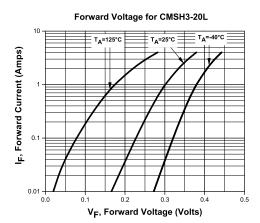
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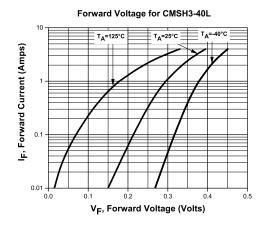


TYPICAL ELECTRICAL CHARACTERISTICS





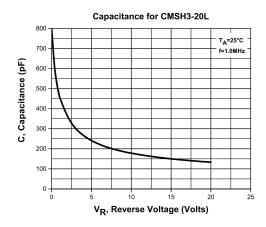


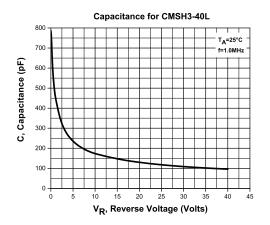


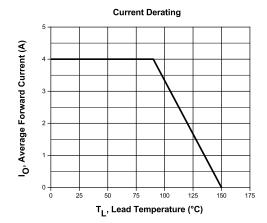
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TYPICAL ELECTRICAL CHARACTERISTICS







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 guick 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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