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

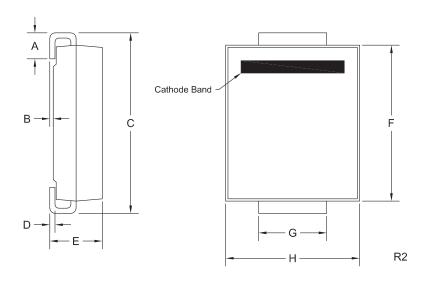
ELECTRIC	AL CHARACTERISTICS: (T _A =25°C un	less otherwise no	oted)	
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		0.50	mA
I_{R}	V _R =Rated V _{RRM,} T _A =100°C		35	mA
* V _F	I _F =4.0A (CMSH3-20L)	0.38	0.42	V
* V _F	I _F =4.0A (CMSH3-40L)	0.40	0.44	V
V_{F}	I _F =3.0A (CMSH3-20L)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

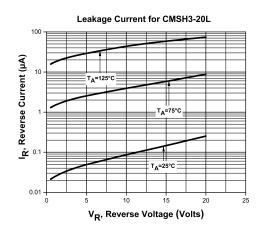
MILLIM MIN 0.76 0.05	ETERS MAX 1.52 0.20
0.76	1.52
0.05	0.20
	0
7.75	8.13
0.15	0.31
2.00	2.62
6.60	7.11
2.75	3.25
5.50	6.22
	6.60

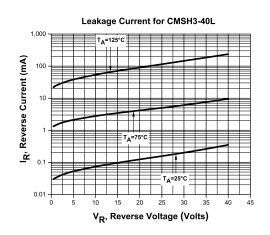
SMC (REV: R2)

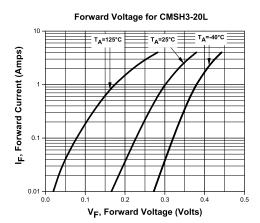
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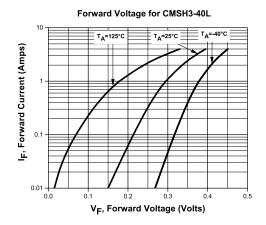


TYPICAL ELECTRICAL CHARACTERISTICS





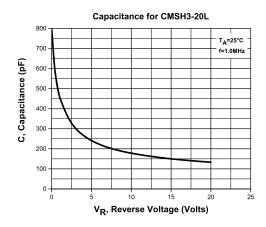


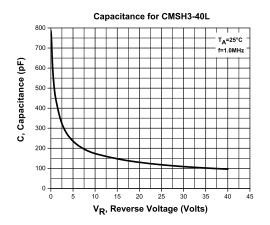


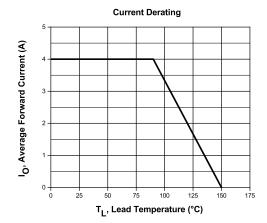
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TYPICAL ELECTRICAL CHARACTERISTICS







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 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

CONTACT US

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