CMSH3-20L CMSH3-40L

SURFACE MOUNT LOW V_F SILICON SCHOTTKY RECTIFIER 4 AMP, 20 AND 40 VOLTS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 4.0 Amp Surface Mount Low V_F Silicon Schottky Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where high efficiency is required. To order devices on 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODES: CMSH3-20L: CS320L CMSH3-40L: CS340L

FEATURES:

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

- Superior lot to lot consistency
- · Low cost
- · High reliability
- "C" bend construction provides strain relief when mounted on a PC board

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

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	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)	0.42	V
* V _F	I _F =4.0A (CMSH3-40L)	0.44	V
V_{F}	I _F =3.0A (CMSH3-20L)	0.38	V
V_{F}	I _F =3.0A (CMSH3-40L)	0.40	V

^{*} Upgraded Specification

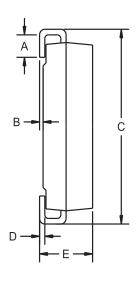
R4 (8-February 2010)

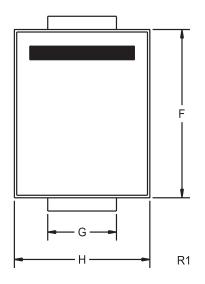
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SMC CASE - MECHANICAL OUTLINE





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

DIMENSIONS								
	INCHES		MILLIM	ETERS				
SYMBOL	MIN	MAX	MIN	MAX				
Α	0.030	0.060	0.76	1.52				
В	0.004	0.008	0.10	0.20				
С	0.305	0.320	7.75	8.13				
D	0.006	0.012	0.15	0.31				
Е	0.079	0.103	2.00	2.62				
F	0.260	0.280	6.60	7.11				
G	0.108	0.124	2.75	3.15				
Н	0.220	0.245	5.59	6.22				
CMC (DEV), D4)								

SMC (REV: R1)