CMSH3-20M CMSH3-60M CMSH3-100M

SURFACE MOUNT SILICON SCHOTTKY RECTIFIERS 3.0 AMP, 20 THRU 100 VOLT



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-20M series 3.0 Amp surface mount silicon Schottky rectifier is a highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE



FEATURES:

- High current capability
- Flammability classification UL94V-0

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

	SYMBOL	CMSH3 -20M	-40M	CMSH3 -60M	-100M	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	60	100	V
DC Blocking Voltage	v_R	20	40	60	100	V
RMS Reverse Voltage	V _{R(RMS)}	14	28	42	71	V
Average Forward Current (T _L =75°C)	Îo			3.0		Α
Peak Forward Surge Current, tp=8.3ms	IFSM			80		Α
Operating and Storage Junction Temperature	T _J , T _{stg}		-65	to +150		°C
Thermal Resistance	Θ_{JI}			20		°C/W

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

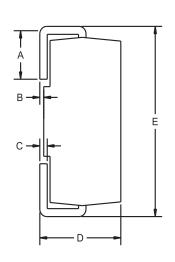
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_{R}	V _R =Rated V _{RRM}		500	μΑ
I_{R}	V_R =Rated V_{RRM} , T_A =100°C		20	mA
V_{F}	I _F =3.0A (CMSH3-20M, -40M)	0.48	0.55	V
V_{F}	I _F =3.0A (CMSH3-60M)	0.56	0.75	V
V_{F}	I _F =3.0A (CMSH3-100M)	0.75	0.85	V
CJ	V _R =4.0V, f=1.0MHz (CMSH3-20M)	139		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH3-40M)	167		pF
C_{J}	V _R =4.0V, f=1.0MHz (CMSH3-60M)	121		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH3-100M)	87		pF

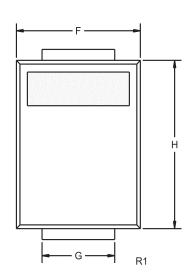
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SMB CASE - MECHANICAL OUTLINE





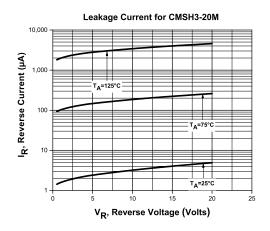
DEVICE	MARKING CODE		
CMSH3-20M	CS320M		
CMSH3-40M	CS340M		
CMSH3-60M	CS360M		
CMSH3-100M	CS3100M		

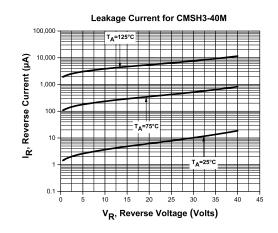
DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.030	0.060	0.76	1.52	
В	0.004	0.008	0.10	0.20	
С	0.006	0.012	0.15	0.30	
D	0.086	0.096	2.18	2.44	
E	0.200	0.220	5.08	5.59	
F	0.130	0.150	3.30	3.81	
G	0.077	0.083	1.96	2.11	
Н	0.160	0.180	4.06	4.57	

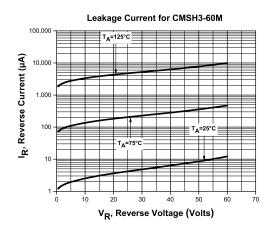
SMB (REV: R1)

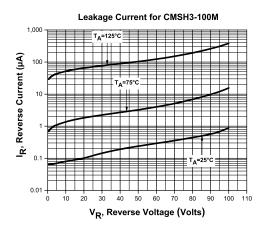
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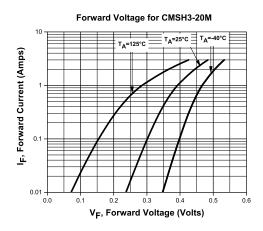


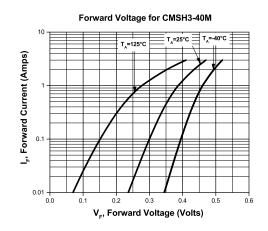


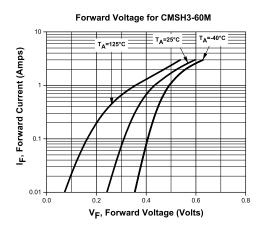


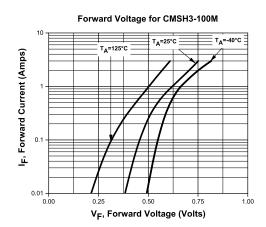
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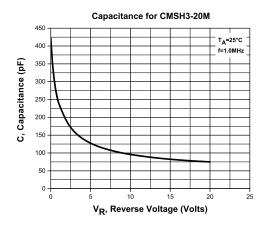


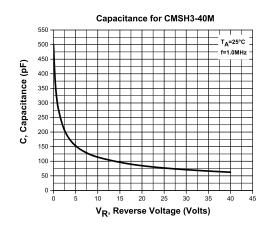


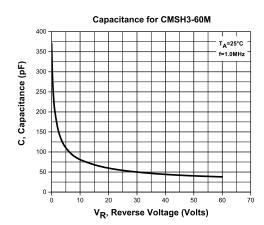


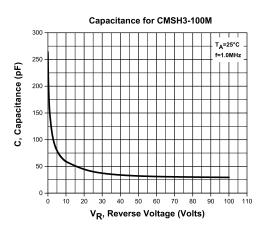
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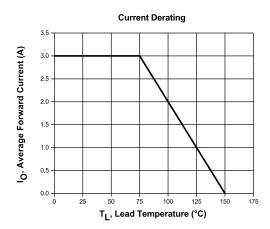






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PRODUCT SUPPORT

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

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