CMSH2-20M CMSH2-60M
CMSH2-40M CMSH2-100M

SURFACE MOUNT SILICON SCHOTTKY RECTIFIERS 2.0 AMP, 20 THRU 100 VOLT



SMA CASE

Central Semiconductor

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH2-20M series 2.0 Amp surface mount silicon Schottky rectifier is a well constructed, 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
- High reliability

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

	SYMBOL	CMSH2 -20M	CMSH2 -40M	CMSH2 -60M	CMSH2 -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)	I_O		2.0			A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}		50			A
Power Dissipation	P_D		1.4			W
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150			°C
Thermal Resistance	Θ_{JA}		89			°C/W
Thermal Resistance	Θ_{JL}		30			°C/W

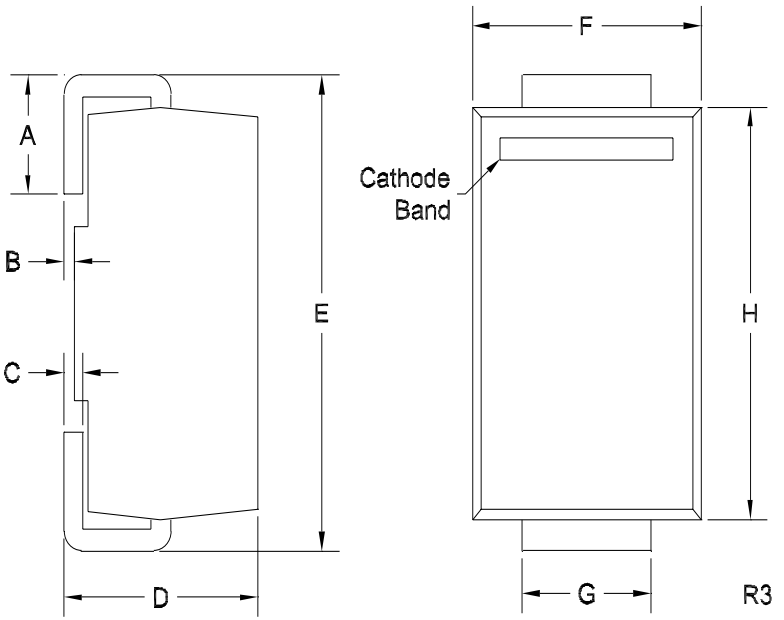
ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

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		20	mA
V_F	I_F=2.0A (CMSH2-20M)	0.44	0.55	V
V_F	I_F=2.0A (CMSH2-40M)	0.47	0.55	V
V_F	I_F=2.0A (CMSH2-60M)	0.53	0.70	V
V_F	I_F=2.0A (CMSH2-100M)	0.76	0.85	V
C_J	V_R=4.0V, f=1.0MHz (CMSH2-20M)	139		pF
C_J	V_R=4.0V, f=1.0MHz (CMSH2-40M)	101		pF
C_J	V_R=4.0V, f=1.0MHz (CMSH2-60M)	94		pF
C_J	V_R=4.0V, f=1.0MHz (CMSH2-100M)	74		pF

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH2-20M	CS220M
CMSH2-40M	CS240M
CMSH2-60M	CS260M
CMSH2-100M	CS2100M

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.002	0.008	0.05	0.20
C	0.006	0.012	0.15	0.30
D	0.078	0.103	1.98	2.62
E	0.188	0.220	4.78	5.59
F	0.090	0.115	2.29	2.92
G	0.050	0.070	1.27	1.78
H	0.157	0.181	3.99	4.60

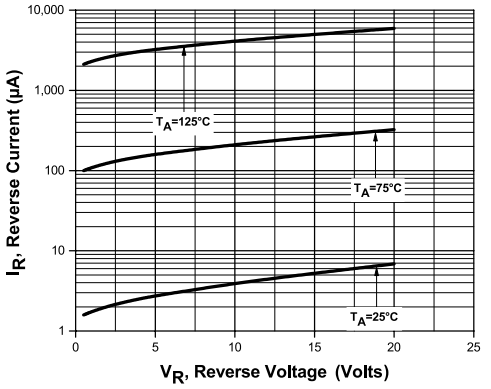
SMA (REV:R3)

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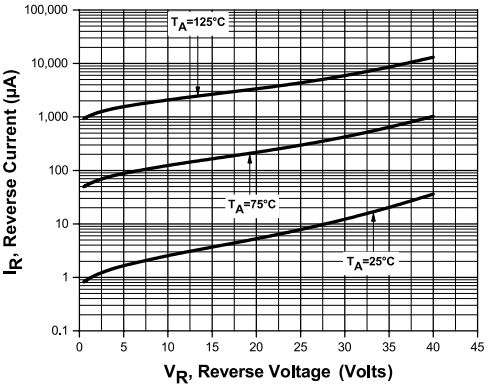
SURFACE MOUNT SILICON SCHOTTKY RECTIFIERS 2.0 AMP, 20 THRU 100 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS

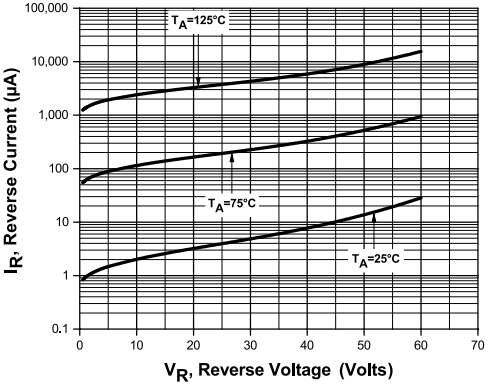
Leakage Current for CMSH2-20M



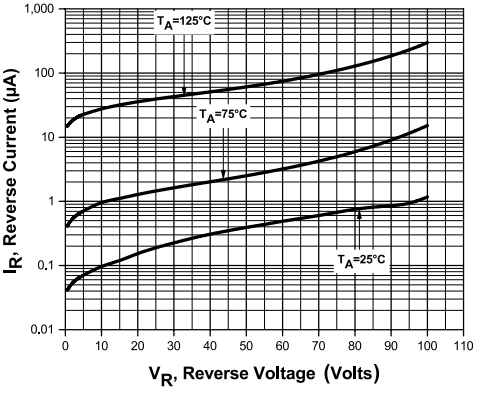
Leakage Current for CMSH2-40M



Leakage Current for CMSH2-60M



Leakage Current for CMSH2-100M

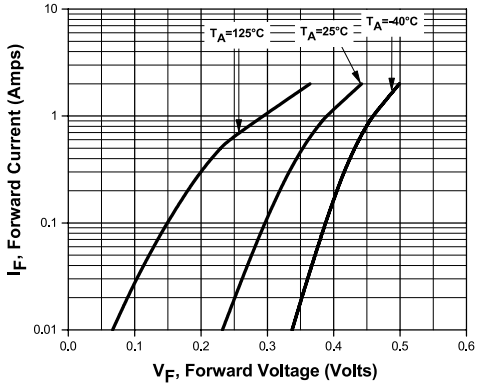


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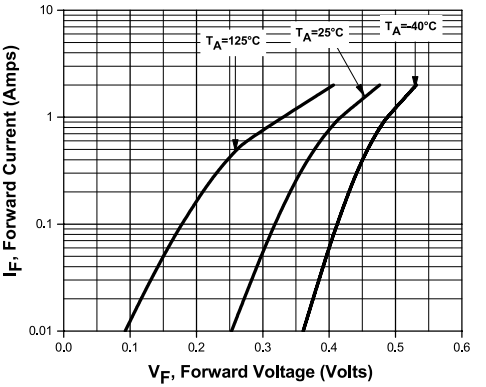
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TYPICAL ELECTRICAL CHARACTERISTICS

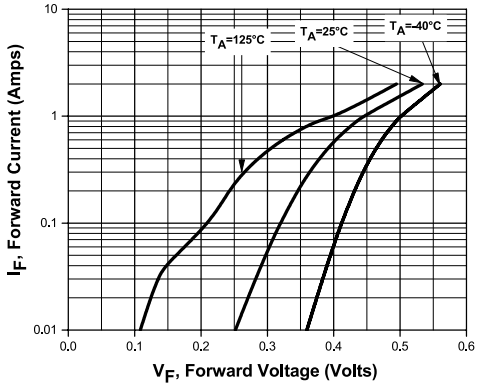
Forward Voltage for CMSH2-20M



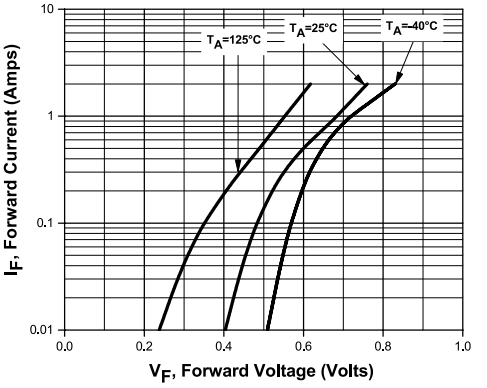
Forward Voltage for CMSH2-40M



Forward Voltage for CMSH2-60M



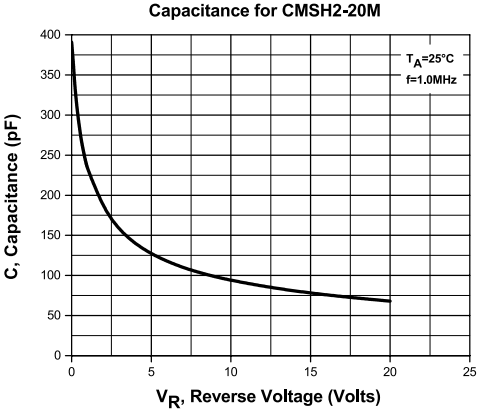
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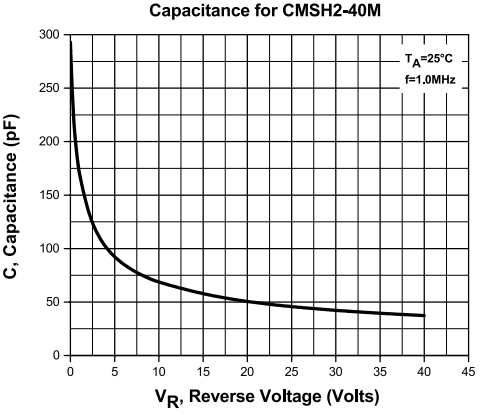


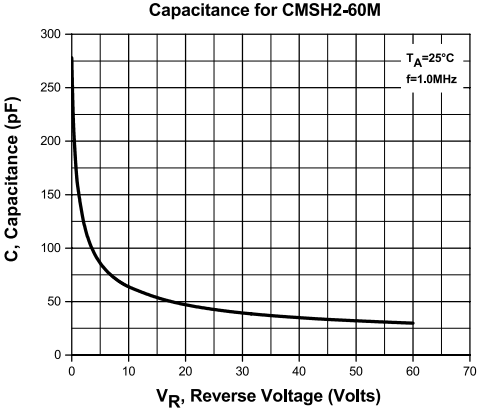
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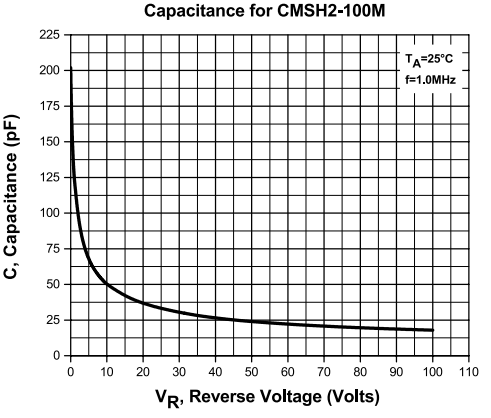
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TYPICAL ELECTRICAL CHARACTERISTICS





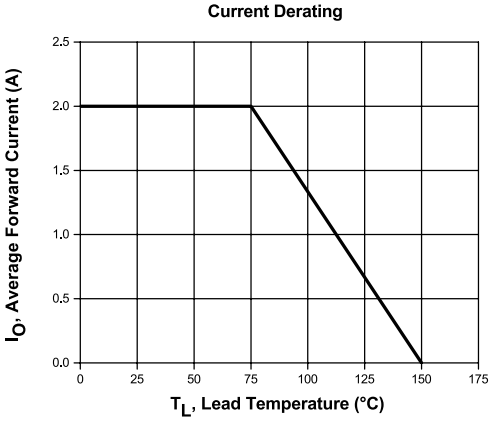


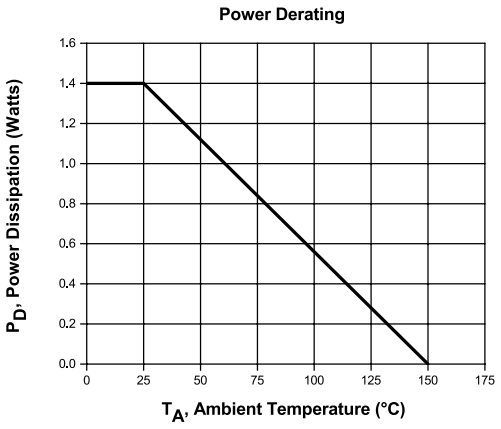


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TYPICAL ELECTRICAL CHARACTERISTICS





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

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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