

FEATURES:

- · High current capability
- Flammability classification UL94V-0
- · High reliability

 V_{F}

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Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-20MA series 3.0 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

0.85

280

	MARINOW RATINGS. (1A-25 C unless otherwise noted)							
		SYMBOL	CMSH3	CMSH3	CMSH3	CMSH3		
			<u>-20MA</u>	<u>-40MA</u>	<u>-60MA</u>	<u>-100MA</u>	UNITS	
Peak Repetitive Reverse Voltage		V _{RRM}	20	40	60	100	V	
DC Blocking Voltage		VR	20	40	60	100	V	
RMS Reverse Voltage		V _{R(RMS)}	14	28	42	71	V	
Average Forward Current (T _L =75°C)		IO		3.0			А	
Peak Forward Surge Current, tp=8.3ms		IFSM		80			А	
Operating and Storage Junction Temperature		T _J , T _{stg}		-65 to +150			°C	
Thermal Resistance		ΘJL	30			°C/W		
ELECTRICA	L CHARACTERISTICS: (T _A =25°C	unless otherw	vise noted)					
SYMBOL	TEST CONDITIONS		TYP	E C	XAN	UNITS		
I _R	V _R =Rated V _{RRM}				500	μA		
I _R	V _R =Rated V _{RRM,} T _A =100°C				20	mA		
V _F	I _F =3.0A (CMSH3-20MA, -40MA)			(0.50	V		
V _F	I _F =3.0A (CMSH3-60MA)			(0.70	V		
Peak Forward Surge Current, tp=8.3msOperating and Storage Junction TemperatureThermal ResistanceELECTRICAL CHARACTERISTICS: $(T_A=25^{\circ}C \text{ urres})$ SYMBOLTEST CONDITIONSIRVR=Rated VRRMIRVR=Rated VRRM, TA=100^{\circ}CVFIF=3.0A (CMSH3-20MA, -40MA)		^I FSM T _J , T _{stg} Θ _{JL}	,	-65 I	80 to +150 30 MAX 500 20 0.50	μA mA V	A °C	

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

I_F=3.0A (CMSH3-100MA)

V_R=4.0V, f=1.0MHz

R3 (6-May 2015)

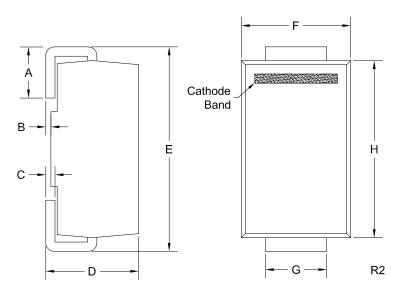
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pF



CMSH3-20MA CMSH3-60MA CMSH3-40MA CMSH3-100MA

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



SMA CASE - MECHANICAL OUTLINE

DEVICE	MARKING CODE
CMSH3-20MA	CS320MA
CMSH3-40MA	CS340MA
CMSH3-60MA	CS360MA
CMSH3-100MA	CS3100MA

DIMENSIONS									
	INCHES		MILLIMETERS						
SYMBOL	MIN	MAX	MIN	MAX					
A	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	0.078	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					
Н	0.157	0.181	3.99	4.60					
SMA (REV: R2)									

R3 (6-May 2015)

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CMSH3-20MA CMSH3-60MA CMSH3-40MA CMSH3-100MA



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

SERVICES

- · Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R3 (6-May 2015)

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Central Semiconductor: CMSH3-40MA TR13 PBFREE