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

SURFACE MOUNT SILICON SCHOTTKY RECTIFIER 3 AMP, 20 THRU 100 VOLTS





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-20M Series 3.0 Amp Surface Mount 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. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High current capability
- Flammability classification UL94V-0
- Superior lot to lot consistency
- Low cost

- High reliability
- "C" bend construction provides strain relief when mounted on pc board

 $\textbf{MAXIMUM RATINGS:} \ (T_{\mbox{\scriptsize A}} = 25 \ ^{\circ}\mbox{C unless otherwise noted})$

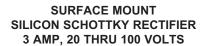
	SYMBOL	-20M	-40M	-60M	-100M	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	60	100	V
DC Blocking Voltage	v_R	20	40	60	100	V
RMS Reverse Voltage	V _{R(RMS)}	14	28	42	71	V
Average Forward Current (T _L =75°C)	lo			3.0		Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}			80		Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150				°C
Thermal Resistance	⊝ی∟ ّ			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)		0.55	V
V_{F}	I _F =3.0A (CMSH3-60M)		0.75	V
V_{F}	I _F =3.0A (CMSH3-100M)		0.85	V
CJ	V _R =4.0V, f=1.0MHz	280		pF

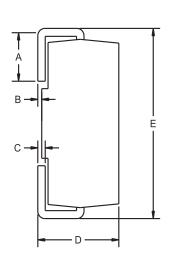
R3 (8-February 2010)

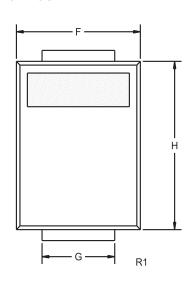
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SMB CASE - MECHANICAL OUTLINE





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)

R3 (8-February 2010)

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