

ABSOLUTE MAXIMUM RATING <sup>6</sup>

SUPPLY VOLTAGE (V <sub>S</sub> )	24 VDC FOR DEVICE WITH RECOMMENDED V <sub>S</sub> OF 6-16 VDC 10 VDC FOR DEVICE WITH RECOMMENDED V <sub>S</sub> OF 5±.2 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+20.0 VDC MAX. WITH SWITCH IN "OFF" CONDITION ONLY -0.5 VOLTS MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	20mA
TEMPERATURE	-40°C TO +125°C
CURRENT	DEVICE WILL NOT BE DAMAGED BY CURRENT OVER-DRIVE

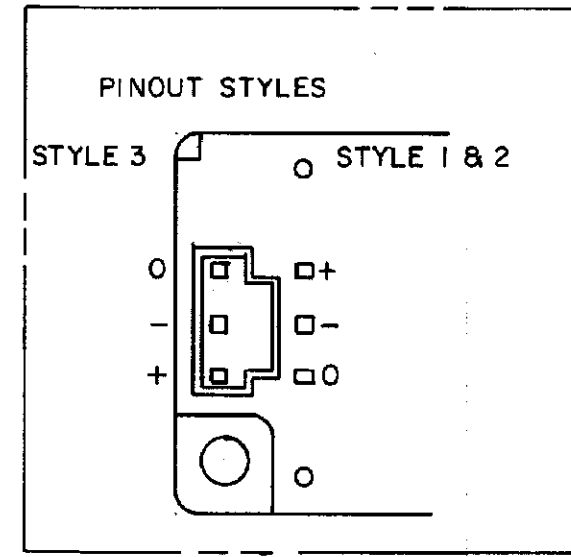
ELECTRICAL CHARACTERISTICS

	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT (WITHOUT LOAD) <sup>5</sup>		2.5mA	12.0mA 10.0mA	MAX (OPERATED) MAX (RELEASED)
OUTPUT VOLTAGE (OPERATED) <sup>4</sup>		0.26V	0.45V	SINKING 20 mA MAX
OUTPUT LEAKAGE CURRENT (RELEASED) <sup>4</sup>			10 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING 8mA) <sup>4</sup>				
RISE TIME		0.2 μS	1.5 μS	10% TO 90%
FALL TIME		0.1 μS	0.5 μS	90% TO 10%

DRAWING NUMBER: M CSD SERIES CHART 1  
PAGE 1 OF 1  
ISSUE: 7  
RELEASE NO.: PR-14509  
REPLACES: CHECK

REVISIONS:  
A CO-95704 DLM 22 MAR 00  
B 204781 GJW JAN 02  
C 205618 GJW 23 MAY 02  
CHECK: SAV 22 MAR 00  
DRAWN: RASTER  
DATE: 22 MAR 00

- NOTES
- <sup>1</sup> INCLUDES (3) .025 X .025 PINS FOR WAVE SOLDER MOUNTING
  - <sup>2</sup> SCREW MOUNTING
  - <sup>3</sup> ACCEPTS CONNECTOR EQUIVALENT TO AMP PART # 102241-1
  - <sup>4</sup> AT RATED SUPPLY VOLTAGE AND OVER A TEMPERATURE RANGE OF -25°C TO +85°C
  - <sup>5</sup> AT A TEMPERATURE OF 24±2°C AND A SUPPLY VOLTAGE OF 5 VDC ± 0.5% FOR 5±.2 VDC RATED DEVICES OR 16 VDC ± 0.5% FOR 6-16 VDC RATED DEVICES
  - <sup>6</sup> ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THAT THE DEVICE WILL WITHSTAND WITHOUT DAMAGE TO THE DEVICE. HOWEVER, THE ELECTRICAL CHARACTERISTICS ARE NOT GUARANTEED AS THE MAXIMUM LIMITS (ABOVE RECOMMENDED OPERATING CONDITIONS) ARE APPROACHED
  - <sup>7</sup> OPERATING CURRENT SPECIFICATIONS ARE FOR CONVENTIONAL CURRENT FLOW IN THE INDICATED DIRECTION. WITH CONVENTIONAL CURRENT FLOW IN THE OPPOSITE DIRECTION, THE OPERATING CURRENT WILL CHANGE. ALSO, FOLLOWING A CURRENT REVERSAL, THE NEXT FEW OPERATIONS IN THE FORWARD DIRECTION MAY HAVE A MINOR SHIFT IN OPERATE POINT
  - <sup>8</sup> EXPOSURE TO LARGE STRAY MAGNETIC FIELDS COULD EFFECT THE OPERATING CURRENT



OPERATE CURRENT (AMP-TURNS) @ 25°C	OPERATE CURRENT (AMP-TURNS) -25°C TO +85°C	RELEASE CURRENT (AMP-TURNS) -25°C TO +85°C	SUPPLY VOLTAGE (V <sub>S</sub> )	RESPONSE TIME (μS) MAX.	C A T A L O G L I S T I N G		
					STYLE 1 <sup>1</sup>	STYLE 2 <sup>2</sup>	STYLE 3 <sup>3</sup>
0.50 <sup>+0.38</sup> <sub>-0.18</sub>	0.50 <sup>+0.50</sup> <sub>-0.25</sub>	.08 MIN.	5±.2	100	Ⓟ	CSDC1BA	CSDC1DA
0.50 <sup>+0.38</sup> <sub>-0.18</sub>	0.50 <sup>+0.50</sup> <sub>-0.25</sub>	.08 MIN.	6-16	100	CSDA1AA	CSDA1BA	CSDA1DA
3.50 <sup>+3.0</sup> <sub>-1.3</sub>	3.50 <sup>+4.0</sup> <sub>-1.8</sub>	0.6 MIN.	5±.2	100	CSDC1AC		
3.50 <sup>+3.0</sup> <sub>-1.3</sub>	3.50 <sup>+4.0</sup> <sub>-1.8</sub>	0.6 MIN.	6-16	100	CSDA1AC	CSDA1BC	CSDA1DC



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**MICRO SWITCH**  
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CATALOG LISTING  
**CSD SERIES**  
**CHART 1**

FED. MFG. CODE 91929

THIRD ANGLE PROJECTION

SCALE: FULL

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±
WEIGHT		