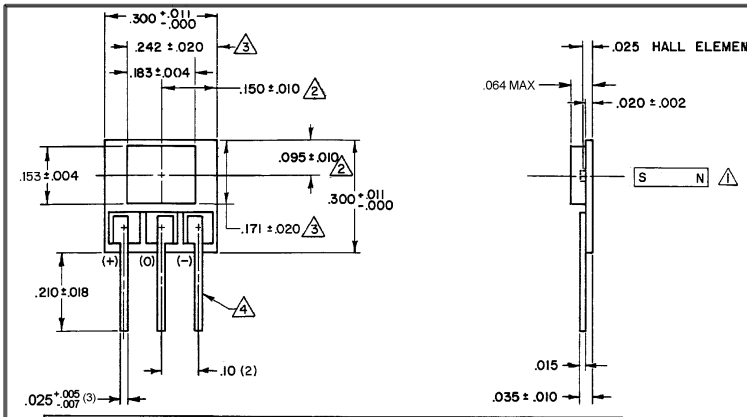
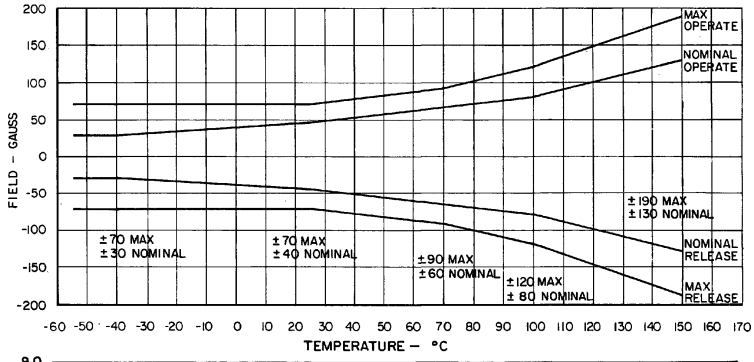
M SS81CA



MAGNETIC CHARACTERISTICS ⚠1

TEMP. RANGE	-55°C TO 150°C	-40°C TO 100°C	0°C TO 70°C
OPERATE MAX	190	120	90
OPERATE MIN			
RELEASE MIN	-190	-120	-90
RELEASE MAX			
DIFF MIN	40	40	40

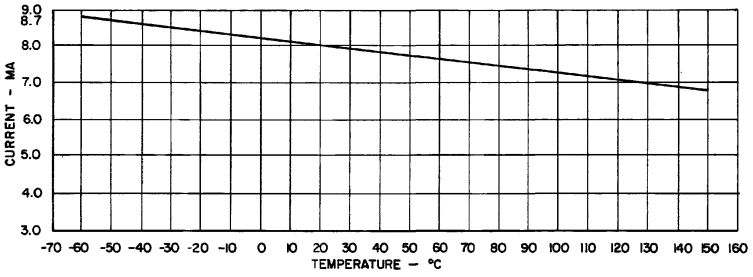


-55°-150°C ELECTRICAL CHARACTERISTICS

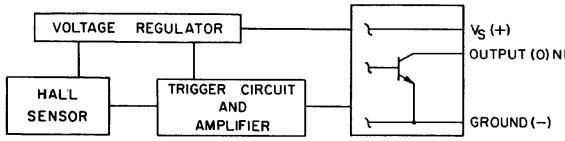
	MIN	TYP	MAX	REMARKS
SUPPLY CURRENT			8.7 mA	"OFF" CONDITION 4.5 - 24 VDC
SINK CURRENT			10 mA	
OUTPUT VOLTAGE (OPERATED)		0.15V	0.4 V	SINKING 10 mA MAX
OUTPUT LEAKAGE CURRENT (RELEASED)			10 μA	LEAKAGE INTO SWITCH OUTPUT
OUTPUT SWITCHING TIME (SINKING)				
RISE TIME		0.2 μS	1.5 μS	10% TO 90%
FALL TIME		0.5 μS	1.5 μS	90% TO 10%

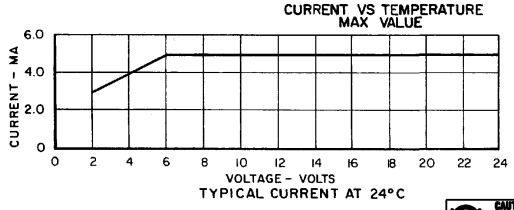
ABSOLUTE MAXIMUM RATING ⚠5

SUPPLY VOLTAGE (V_S)	-34 TO +34 VDC
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	+28.0 VDC MAX WITH SWITCH IN "OFF" CONDITION ONLY -0.5 V MIN WITH SWITCH IN "OFF" OR "ON" CONDITION
OUTPUT CURRENT	20 mA
TEMPERATURE	-55°C TO 160°C
MAGNETIC FLUX	NO LIMIT. THE CIRCUIT CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE



BLOCK DIAGRAM CURRENT SINKING OUTPUT





NOTES
⚠1 TO TEST THE SWITCH AGAINST THE SPECIFIED OPERATING CHARACTERISTICS THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD
⚠2 HALL ELEMENT LOCATION WITH INTEGRATED CIRCUIT PLACEMENT TOLERANCE (IC) ONLY. THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED
⚠3 PROTECTIVE CAP PLACEMENT TOLERANCE
⚠4 SOLDER TERMINALS USING 60/40 ROSIN CORE SOLDER EMPLOYING A 750°F CONTROLLED TEMPERATURE 1/8" CHISEL TIP SOLDERING IRON. CAUTION: THE SOLDER TIP SHOULD NEVER BE HELD ON THE TERMINAL FOR OVER 4 SECONDS IN ORDER TO AVOID DELAMINATION OF THE TERMINALS FROM THE CERAMIC
⚠5 ABSOLUTE MAXIMUM RATINGS ARE THE EXTREME LIMITS THAT THE DEVICE WILL WITHSTAND WITHOUT DAMAGE TO THE DEVICE. HOWEVER, THE ELECTRICAL AND MAGNETIC CHARACTERISTICS ARE NOT GUARANTEED AS THE MAXIMUM LIMITS (ABOVE RECOMMENDED OPERATING CONDITIONS) ARE APPROACHED NOR WILL THE DEVICE NECESSARILY OPERATE AT ABSOLUTE MAXIMUM RATING

CAUTION ELECTROSTATIC SENSITIVE DEVICE DO NOT OPEN OR HANDLE EXCEPT AT A STATIC FREE WORKSTATION
ESD SENSITIVITY: CLASS 2

THIRD ANGLE PROJECTION
SCALE 5 : 1
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE
ONE PLACE (.0) ±.030
TWO PLACES (.00) ±.015
THREE PLACES (.000) ±.005
ANGLES ±
WEIGHT

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FED. MFG. CODE 91929

SOLID STATE SWITCH

CATALOG LISTING
SS81CA

MASTER REDUCED

DRAWING NUMBER M SS81CA PAGE OF RELEASE NO. PR-12784 RELEASES
ISSUE 8 CHECK
REVISIONS
A 105-19704 DLM 8 MAR 00
B 202280 CAT 21 FEB 01
C 200956 BSP 21 SEP 01 BLR
D 0038691 MAPR08 CHECK
E 0039911 MAY08 21MAY08
8 MAR 00 SAV CHECK
8 MAR 00 DLM DRAWN
RASTER

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