

INSTRUCTIONS

MODEL AVX-S1-ISUB BIAS INSERTION UNIT

S.N.:

WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

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GENERAL OPERATING INSTRUCTIONS

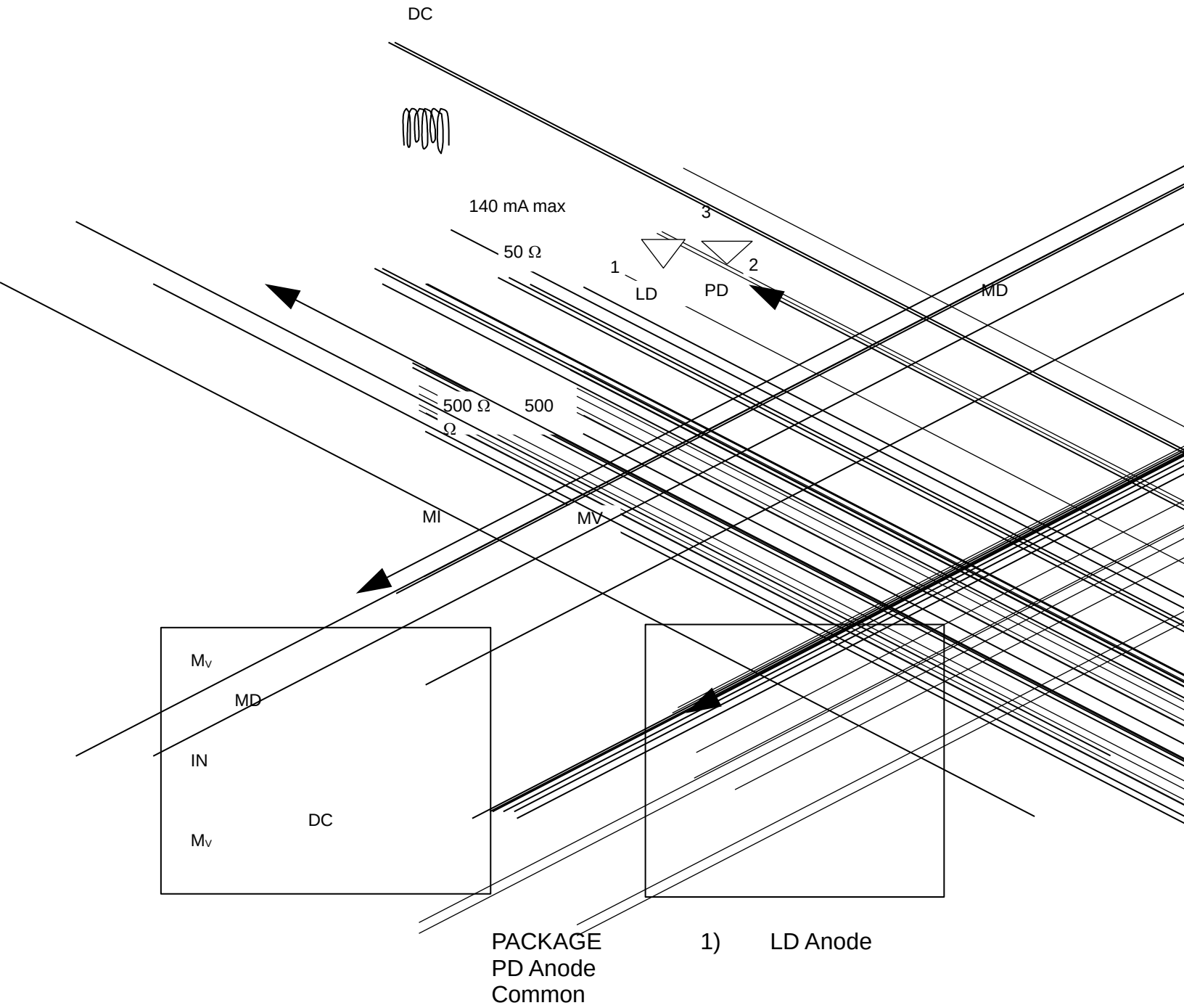
- 1) A general description of the AVX-S1 module is given in the enclosed data sheet.
- 2) The AVX-S1 module should be connected to your pulse source via a 50-Ohm cable (supplied).
- 3) The laser diode plugs directly into the socket on the side of the AVX-S1 module.
- 4) A forward DC bias may be applied to the laser diode by connecting a DC potential of 0 to +5 Volts to the DC solder terminal. This terminal must be shorted to ground if a forward bias is not required.
- 5) The diode pulse current may be monitored by connecting the MI and MV output ports to the sampling scope via 20 dB attenuators. The output amplitude (V_{MI} and V_{MV} , Volts) and diode current (I_D , Amp) are related as follows:

$$I_D = 0.2 (V_{MI} - V_{MV})$$

The laser diode voltage is given by the following:

$$V_D = 10 V_{MV}$$

AVX-S1-ISUB FUNCTIONAL EQUIVALENT CIRCUIT



AVX-S SERIES DATA SHEET

AVX-S SERIES SPECIFICATIONS

PERFORMANCE CHECK SHEET