

S E R V I C E N O T E

SUPERSEDES

HP 4145B Semiconductor Parameter Analyzer

Serial Numbers: 2830J00100 2830J02933

SMU Board Modification

To Be Performed By: HP-Qualified Personnel

Parts Required: 1901-1380 -- Diode, 1SS277

Situation:

When measuring currents, an SMU may generate a dip spike, if a range change occurs. Figure 1 shows an example of this occurrence.

Solution/Action:

Replace diodes A5CR11, A5CR15, A5CR18, and A5CR19 with new diodes (HP P/N 1901-1380). Figure 2 shows location of A5CR11, A5CR15, A5CR18, and A5CR19.

After replacement, performance verification and adjustments are required.

Note that A5 SMU boards are set up on an Exchange Program. If an A5 SMU board shows the symptoms described above, perform component-level repair as described in this service note instead of exchanging the board(s).

Continued

DATE: June 1994

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 1.5 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
		USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	HP RESPONSIBLE UNTIL: June 1996	
AUTHOR: ET	ENTITY: 3300	ADDITIONAL INFORMATION:	

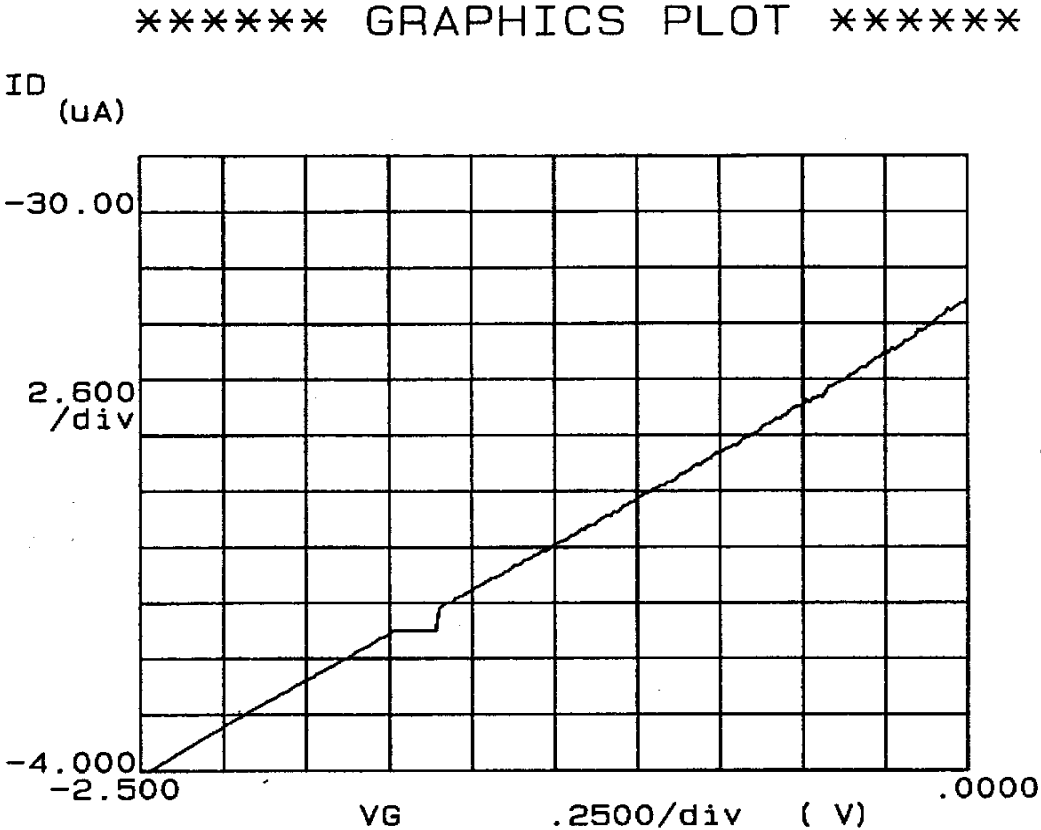


Figure 1. A Current Measurement Example

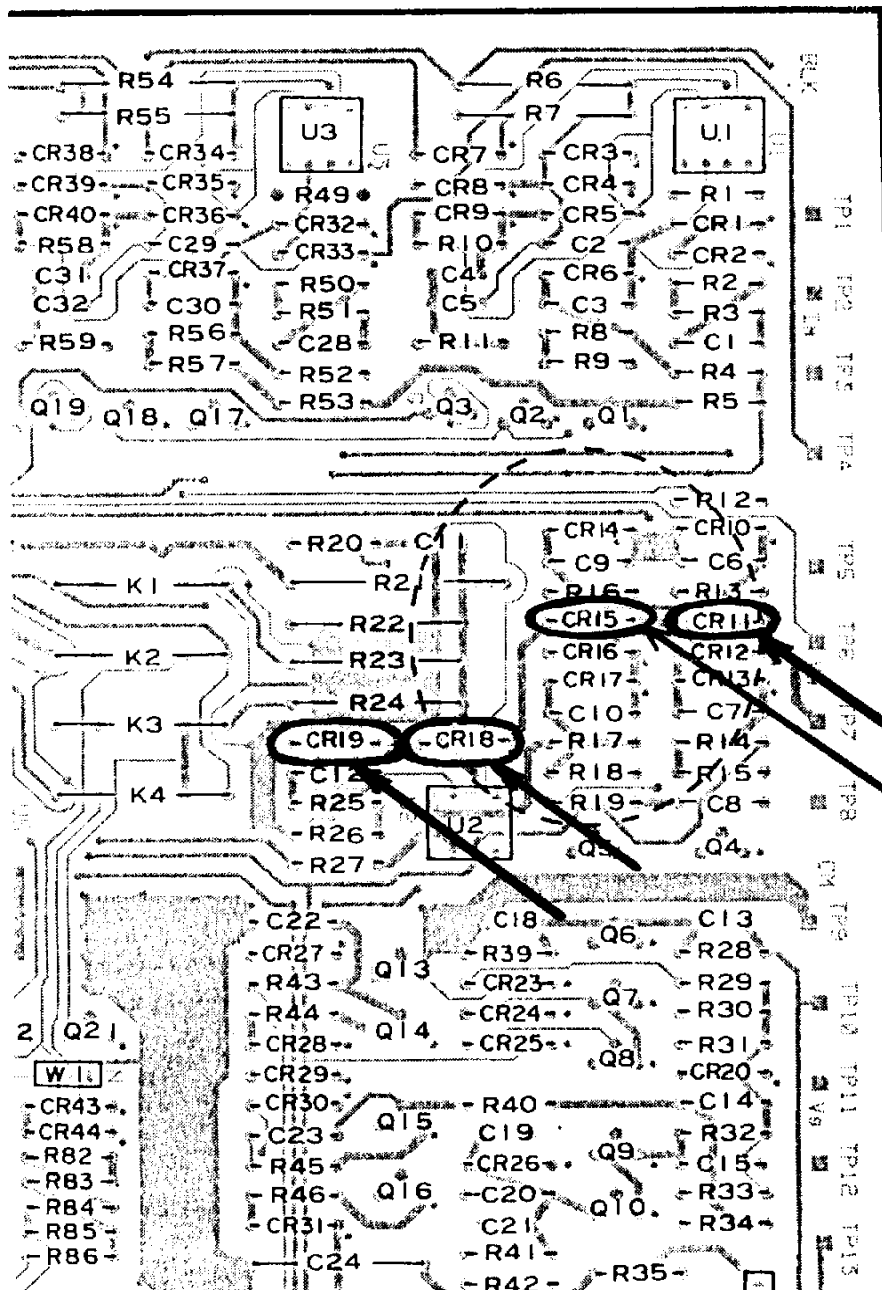


Figure 2. Location of A5CR11, A5CR15, A5CR18 and A5C419