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Application Note Number ..141..

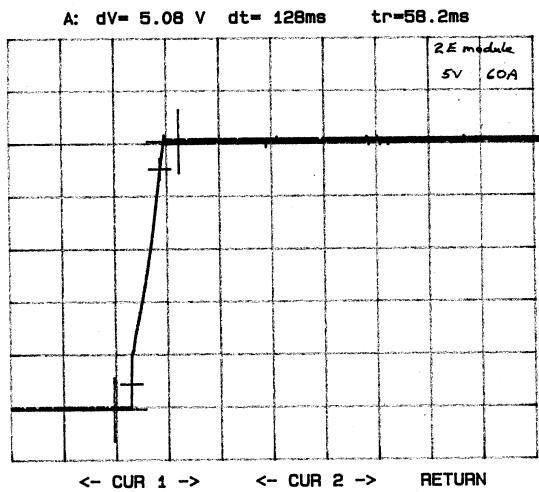
Product : MVP Series
Application Overview: Output module rise time

Originator: G. Fry

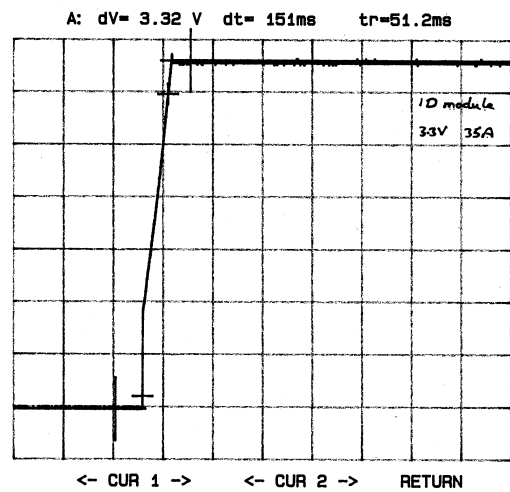
Location: Merry Hill

Date: 10/10/00

Schematic



Rise time of 2E module into resistive load



rise time of 1D module into resistive load

Description

The output rise time of the MVP modules is shown in this note. Each module was tested in the MP6 chassis into a resistive load. The tests were carried out at full load and half load. The rise time defined as the time to go from 10% to 90% of the nominal output voltage.

In the tests the following results were found

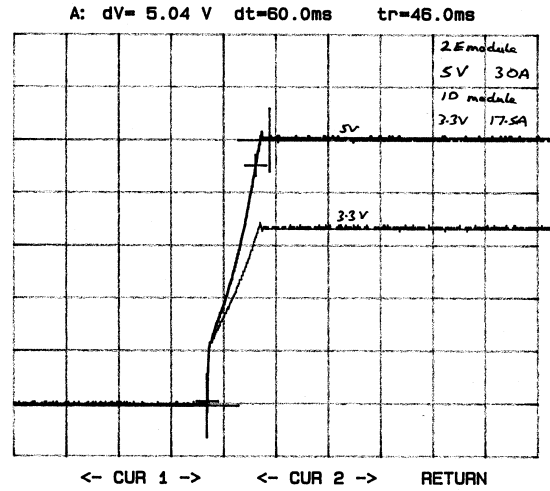
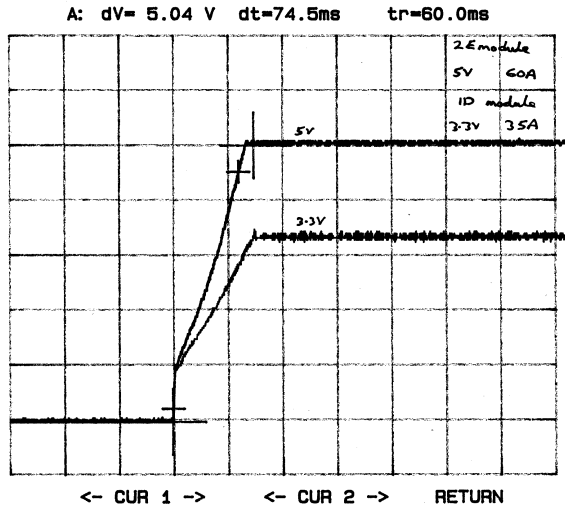
2E module		1D module		4LL module		1E module	
5V 30A	44.5ms	3.3V 17.5A	36.2ms	(1) 12V 10A	41.7ms	5V 17.5A	37.0ms
5V 60A	58.2ms	3.3V 35A	51.2ms	(2) 12V 4A	18.2ms	5V 35A	50.2ms

Rise time comparisons between modules are given on the next page between the 5V and 3.3V outputs at full load and half load. And also the dual 12V module at full load and half load.



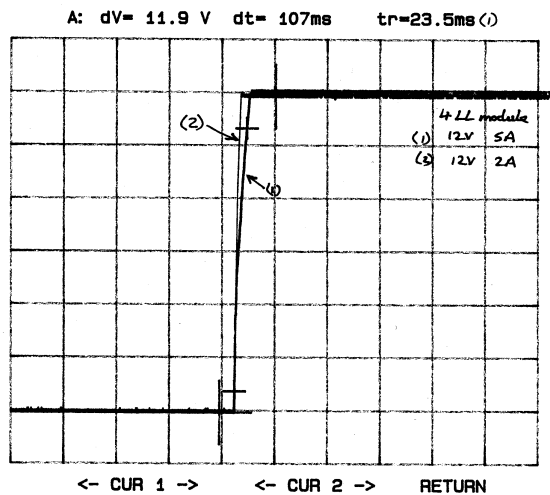
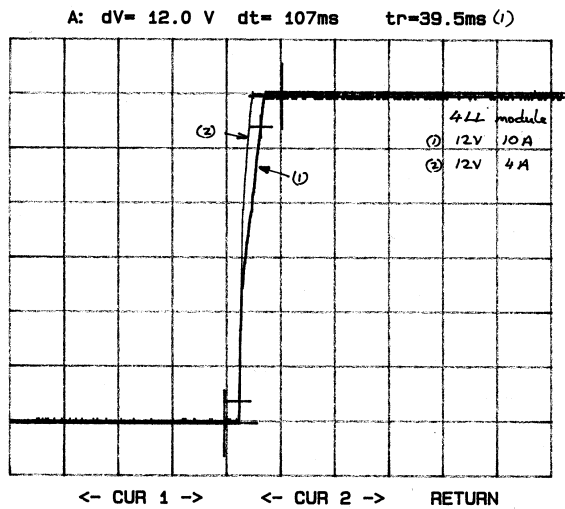
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Description (continued)



The above traces show the 2E and 1D module in an MP6 chassis, (results will be same for MP4 chassis)

- A) full resistive load 5V 60A and 3.3V 35A
- B) half resistive load 5V 30A and 3.3V 17.5A



The above traces show the 4LL module

- A) full resistive load 12V 10A and 12V 4A
- B) half resistive load 12V 5A and 12V 2A