

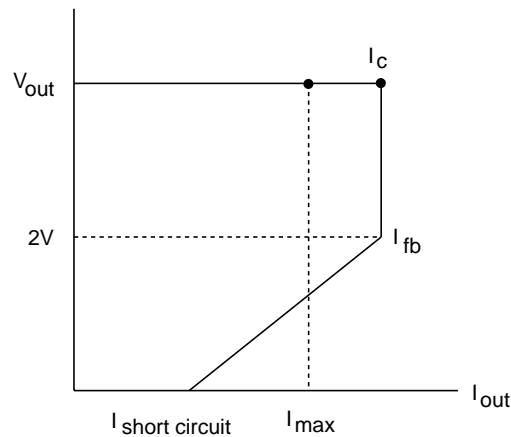
Overcurrent Protection

Foldback Current Limiting

The MI/VI-200 units with output voltages of 5V or less incorporate foldback current limiting (Figure 1). In this mode, the output voltage remains constant up to the current knee, I_{C} (current limit (I_C), which is 5-25% greater than full-rated current, I_{MAX}). Beyond I_C , the output voltage falls along the vertical line I_C - I_{fb} until approximately 2V. At $\leq 2V$, the voltage and current fall back along the foldback line I_{fb} to $I_{short\ circuit}$ (20% to 80% of I_{MAX}). Units will automatically recover when overcurrent is removed.

When bench testing modules with foldback current limiting, use a constant resistance load as opposed to a constant current load. Some constant current loads have the ability to pull full current to near zero Volts. This may cause a latchup condition.

Figure 1.
Foldback
Current Limiting



Straight Line Current Limiting

The MI/VI-200s with output voltages greater than 5V and all MI/VI-J00s incorporate a straight-line type current limit (Figure 2). As output current is increased beyond I_{MAX} , the output voltage remains constant and within its specified limits up to a point, I_C , which is 5-25% greater than rated current, I_{MAX} . Beyond I_C , the output voltage falls along the vertical line to I_{SC} . Units will automatically recover after overcurrent is removed.

Figure 2.
Straight-Line
Current Limiting

