

DUAL VOLTAGE VOLTAGE REGULATOR WITH
FOLDBACK CURRENT LIMITING

ABSTRACT

A voltage regulator (10) is switchable between a lower regulated DC output voltage and a higher regulated DC output voltage. Foldback current limiting is actuated in response to the current drawn by the load when a current limiting threshold is exceeded. The current limiting threshold is determined by the voltage relationship at respective taps of a pair of voltage dividers (60, 62, 64) (70, 72), with said relationship being effected by the voltage appearing across a current sensing resistor coupled in series with the load. The current limiting threshold is adjusted to be approximately the same for both the lower and the higher regulated DC output voltages. This adjustment is accomplished with a non-linear voltage dependent device (78), which is coupled to one of the voltage dividers, and is actuated in the higher output voltage mode.

FIGURE. 1