



GR-- 371528

Input Level	Delay	(usec)	
		Min.	Max.
	Turn On	.10	.10
	Turn Off	.29	1.30

Low Current Indicator Driver

The low current indicator driver card (GR - -) supplies 15 to 17ma to a 10v incandescent lamp (GE344). A -T input level of 20 milliseconds is required to give a visual indication within the lamp. Four indicator drivers are located on each GR - - card.

Circuit Description

With a +T input at pin A, T4 is reverse-biased off. A pre-energization current of 6ma flows through the lamp, the 30 ohm and the 2K resistors to ground. This current, however, is not sufficient to give a visual indication in the lamp. The voltage output seen at pin A at this time would be near -12v.

When the input drops to -6v, T4 becomes forward-biased on and appears as a low resistance in parallel with the 2K resistor. The output at pin E increases to 0v and 13 to 17ma flow through the transistor to give a visual indication within the lamp.

Application

Twisted pair cables are used to connect the driver to the indicator panels. The voltage reference twists are grounded at the driver end and are commoned and decoupled to -6v at the indicator panel as shown above. This circuit is capable of driving an indicator located a maximum of 60 feet from the driver. Five indicator drivers may be driven from one CTRL block.