

Exp. No. :

Date :

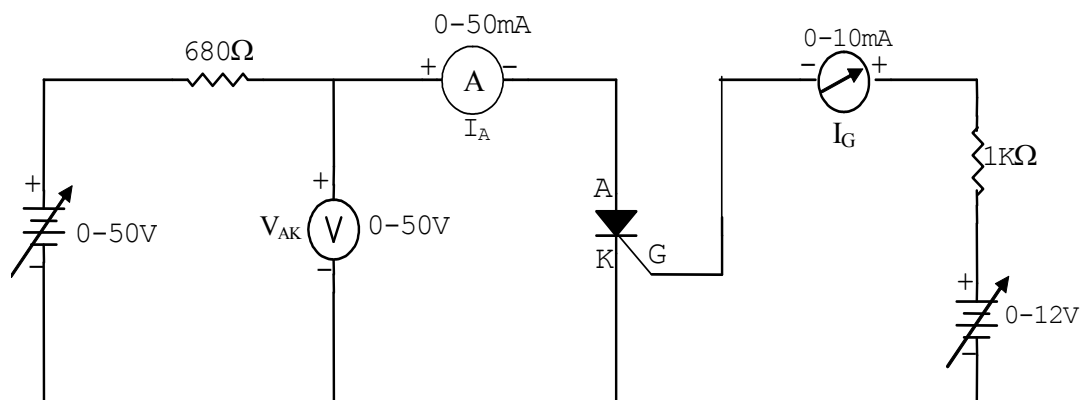
SCR CHARACTERISTICS

AIM: To obtain V-I characteristics of SCR.

APPARATUS :

S.No.	Name of the Apparatus	Range	Quantity
1.	TYN612 (SCR)	-	1No.
2.	Power Supply	0-30V	2No.s
3.	Ammeter	0-50mA & 0-10mA	Each 1No.
4.	Voltmeter	0-50V	1No.
5.	Resistor	1K & 680 Ω	1No.

CIRCUIT DIAGRAM:



PROCEDURE:

1. Connect the circuit as shown in figure.
2. Keep $I_G=0$.
3. Vary the biasing voltage and note down V_{AK} and I_A .
4. Carefully note down the Break Over Voltage(V_{BO}) (Where the SCR fires ie., is turned ON).
5. After taking several values decrease the biasing voltage and note down Holding Current (I_H) where the SCR is about to Turn OFF.
6. Repeat Step 3 to 6 for different values of I_G .

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READINGS:

$I_G = 0$		$I_G =$		$I_G =$	
V_{AK} (V)	I_A (mA)	V_{AK} (V)	I_A (mA)	V_{AK} (V)	I_A (mA)

V-I CHARACTERISTICS**RESULTS:**Holding current (I_H) =Breakover Voltage(V_{BR}) =