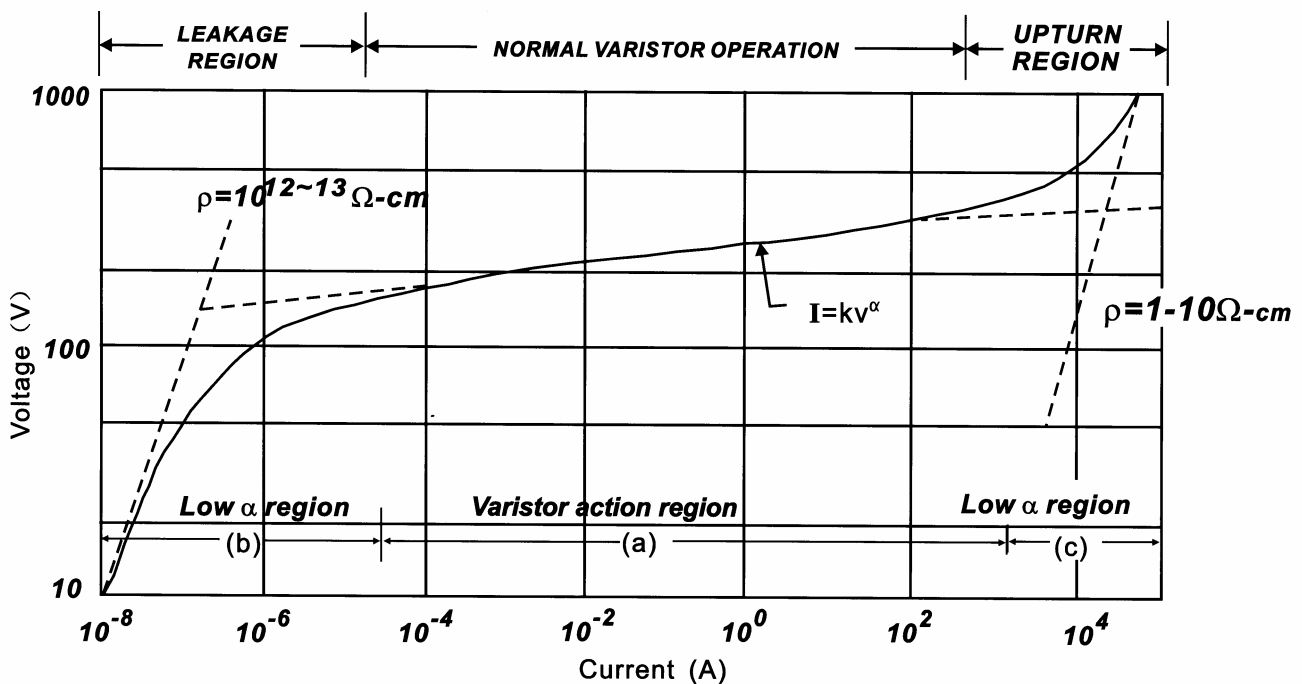


## INTRODUCTION

METAL OXIDE VARISTOR is a polycrystalline ceramic body consisting of semi conducting zinc-oxide (**ZnO**) grains and second phase(Including) **Bi<sub>2</sub>O<sub>3</sub>, Sb<sub>2</sub>O<sub>3</sub>, MnO, CoO**, etc) Located at the joints of the grains, it's called varistor (variable resistor), surge absorber or TVS (transient voltage suppressor) because of its electrical resistance varies nonlinearly with the voltage applied to its terminals.

Some specific areas of application of VARISTORS are:

- \* POWER SUPPLIES
- \* GROUND FAULT INTERRUPTERS
- \* COMMUNICATION EQUIPMENTS
- \* CABLE TV SYSTEMS
- \* MOTOR CONTROL SYSTEMS
- \* MICROPROCESSOR PROTECTIONS
- \* AC OPERATED SMOKE DETECTORS
- \* SURGE PROTECTION IN CONSUMER ELECTRONICS
- \* SURGE PROTECTION IN MEASURING AND CONTROLLER SYSTEMS
- \* SURGE PROTECTION IN INDUSTRLAS ELECTRONICS
- \* SURGE PROTECTION IN ELECTRONIC HOME APPLIANCES
- \* PROTECTION AGAINST TRANSIENTS INDUCED BY LIGHTNING ON INCOMING POWER LINES
- \* SUPPRESSOR OF TRANSIENTS CAUSED BY SWITCHING INDUCTIVE LOADS:  
TRANSFORMER, RELAYS, COILS.



Typical Varistor V-I Curve