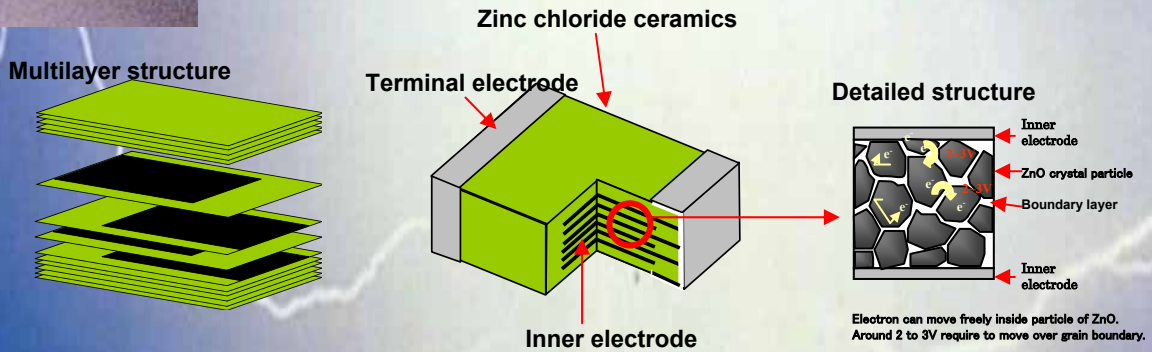


Features and Structures of chip type multilayer ceramic varistors



- Multilayered ceramic composed mostly of Zinc chloride (ZnO).
- Highly-reliability with large surge capacitance
- Wide variety of varistor voltage and chip sizes



Comparison of each products for surge resistance

Products for surge resistance	Polar character	application range	size	varistor voltage range	Maximum surge current	features
Multilayer ceramic varistor	◎	◎	◎	◎	○	High capacitance with large voltage area
One plated type varistor	◎	○	×	△	◎	High capacitance but small voltage area
Semiconducting zener	△	○	◎	◎	△	Excellent clamping voltage but low capacitance
Discharge tube type	◎	△	◎	△	○	High capacitance but no low voltage area
Gap type absorber	◎	×	△	×	×	High operating voltage and limited application

MARUWA's chip type multilayer ceramic varistor line up

