



MH-Series Characteristics

Today the automobile electronic control system develops rapidly, but the impacts of transients in the automotive environment become severer, A standard automotive electrical system has to generate the undesirable transients such as the severe, high energy, transients generated by the alternator/regulator system to the low-level “noise” generated by the ignition system and various accessories. Therefore, there is a greater need to consider the capability of new technology being applied in order to increase the survivability to the commonly encountered transients.

MH-series Transient Voltage Suppressors (TVS) are especially developed for the automobile control system such as transistorized ignition system and electronic fuel injection system. These devices have significantly smaller footprints and lower profiles than traditional zener diodes or radial MOVs (metal oxide varistor), allowing designers to reduce size and weight while increasing system reliability.

Characteristics	MH Series
Surge current (8/20 μ s) up to	1200A
Energy absorption up to	12.0J
Average power dissipation up to	0.03W
Response time	<0.5ns
Storage temperature	(0402...0603) -55 °C ~ +125 °C (0805...2220) -55 °C ~ +150 °C
Operating temperature (full load)	(0402...0603) -55 °C ~ +85 °C (0805...2220) -55 °C ~ +125 °C

FEATURES:

- ⊙ Chip size: from 0805 to 2220
- ⊙ Thin layer and high precise techniques.
- ⊙ Leadless SMD formation—surface mount design
- ⊙ Voltage rating for DC 12V & 24V battery.
- ⊙ Low profile compact industry standard chip size.
- ⊙ High energy absorption, particularly in case of load dump.
- ⊙ “zero” lead inductance, fastest speed of response to transient surges.
- ⊙ Wide operating temperature range.
- ⊙ High resistance to thermal shock.
- ⊙ Stable protection level, minimum leakage current.
- ⊙ Available in tape and reel for use with automatic pick & place equipment.
- ⊙ Compatible with most surface-mounting assembly equipment and mounting techniques.