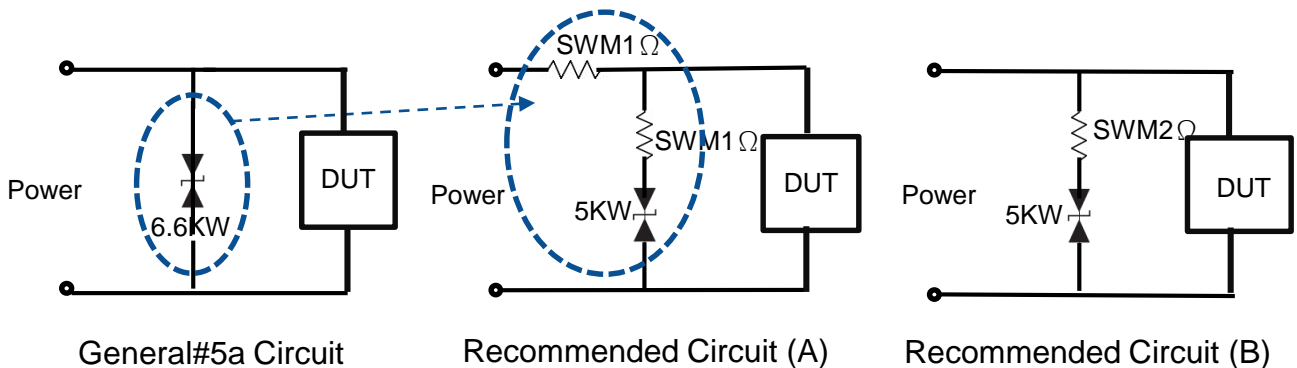


All function of automotive device / system need to pass ISO7637 EMC transient immunity test to ensure the compatibility to conducted electrical transients of equipment installed on passenger cars and commercial vehicles fitted with 12 V or 24 V electrical systems. Firstohm provided the best solution to meet ISO7637 pulse #5a circuit that utilized SWM(Anti-Surge Wire Wound MELF Resistor) with more safety and can reduce total BOM cost.

ISO7637	Specification	Safety	BOM cost
General #5a Circuit	6.6KW TVS (Ex. : ASTV66SM824A)	Fair	High
<b>Recommended #5a circuit</b>	<b>5KW TVS + SWM100,1Ω/2Ω (Ex. :TV50C110-441)</b>	<b>Excellent</b>	<b>Low</b>



※ **Advantage of SWM series :**

1. SMD enabled structure
2. Enhanced weld spot is reliable against high surge
3. Flameproof multi-layer coating meet UL94 V-0
4. Mechanical strength against thermal shock & vibration



Type	Power Rating	Resistance	Tolerance	Maximum Working Voltage	Maximum Overload Voltage	Permissible Surge Voltage
SWM100	1W	0.1Ω ~ 1.5KΩ	±5%	350V	700V	Max. 7.5KV
SWM200	2W	0.1Ω ~ 1.5KΩ	±5%	400V	800V	Max. 8.5KV
SWM300	3W	0.1Ω ~ 1.5KΩ	±5%	400V	800V	Max. 9KV