

Vehicle Power Supply Circuit Negative Surge Simulator TIS 60T1

Datasheet



In Compliance with

- > Toyota TSC0502G
- > Toyota TSC3500G
- > Toyota TSC3590G
- > Toyota TSC7001G
- > Toyota TSC7203G
- > Toyota TSC7306G

Introduction

The Vehicle Power Supply Circuit Negative Surge Simulator TIS 60T1 is designed according to Toyota TSC0502G, which is capable of simulating the various types of negative surges discharged from the inductive system load. It can generate square wave (Fig. 2a) and burst waveform (Fig. 2b) with easy and intuitive setting design.

Features

- > 5.7" color touch screen;
- > Satisfy the test requirement of negative surge test specified in Toyota TSC0502G;
- > Built-in DC switch for spark test;
- > Ethernet and RJ45 interface for PC remote control and test report printing;

Application Areas

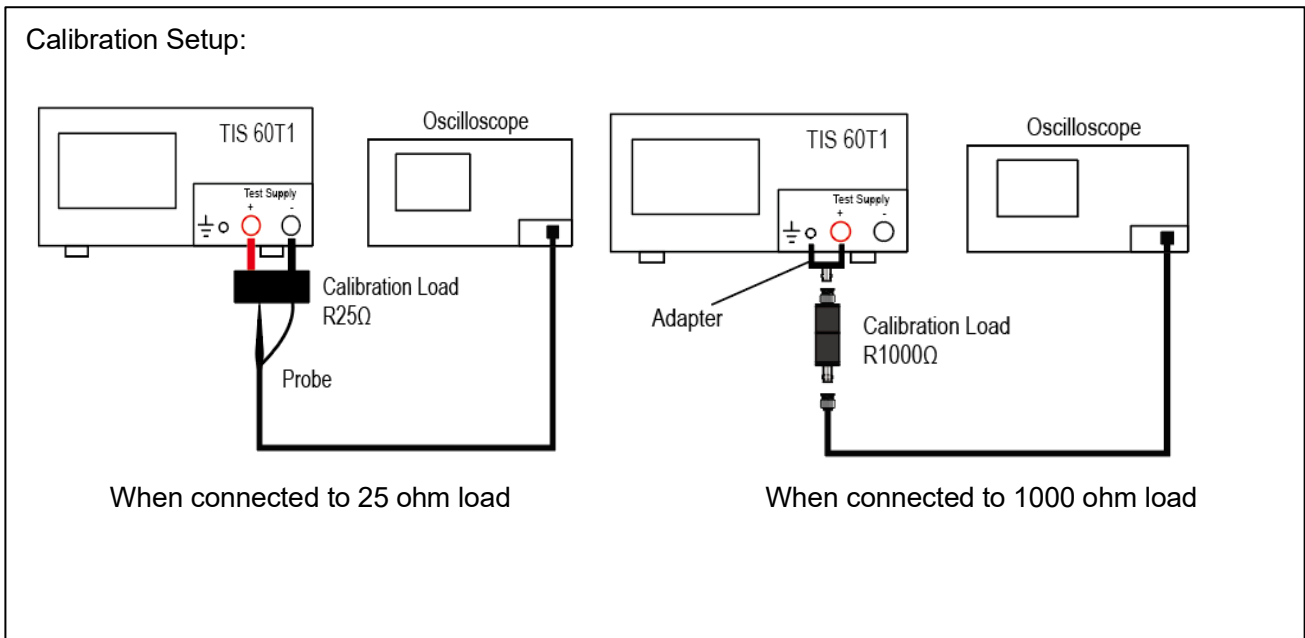
- > Automotive

Technical Parameters for Spark Surge: Square Wave and Burst Waveform	
Output Voltage of Spark Surge (Vs)	-46 V(+1,-554 V) (when connected to 25 Ω±0.5 Ω load) -462 V(+10,-138 V)(when connected to 1 kΩ±0.02 kΩ load)
Spark Surge Duration	Square Wave: 0.1~1.5 ms Burst Waveform: 50 μs±5 μs
Single Pulse of a Burst	Rise Time tr: 5~10 ns Pulse Width td: 0.5 μs ~1.0 μs
Negative Surge Peak (Vp)	-100 V±2 V (25 Ω±0.5 Ω) -120 V±2 V (1 kΩ±0.02 kΩ)
Time Constant of Negative Surge Waveform τ	0.02 s±0.001s (25 Ω±0.5 Ω) No requirement (1 kΩ±0.02 kΩ)
Waveform Duration Time	1s
Test Repetition	2s
Counter	1-999
DUT Load(optional)	30 A 50 A 75 A 100 A

General Parameters	
Working Power Supply	AC 110V/220V±10% , 50/60Hz±5% (AC 220V 50Hz in mainland China by default)
Ambient Temperature	5°C ~ 23°C
Relative Humidity	25% ~ 70%
Atmospheric Pressure	86kPa ~ 106kPa
Dimension	4U
Weight	Approx. 40 kg

Accessories
Test Line, Power Line, Fuses (spare parts), User Manual

Options
Calibration Load R25Ω: 25 Ω±0.5 Ω R1000Ω: 1 kΩ±0.02 Ω
Autolab Control Software





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