

## DC Surge Protector SPD I2R Indoor DIN-Rail 48 Vdc Track Signal, Full-Mode, 20 kA MOV, GDT

**1101-1157**  
I2R DSA



### Features

- Hybrid MOV, GDT Protection
- Visual Suppression Status Indicator
- Dry Contact Remote Annunciation Terminals
- Replaceable Suppression and Fuse Modules
- DIN-Rail Mount

### Applications

- Railroad Trackside Signal Circuits

### Description

DC surge protector (also known as SPD or lightning protector) 1101-1157 from Transtector is a DIN-Rail style SPD that utilizes state of the art MOV, GDT technology to protect critical equipment that operates on a 48 Vdc electrical service. This surge protector provides effective protection against electrical transient surges that are generated both by external lightning events and by internal switching events and supports long-term system reliability by safely shunting high amounts of transient energy while maintaining a very low clamping voltage. Transtector DC surge protectors are available in stock with same day shipping.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Service Voltages		48		Vdc
Current Rating			40	A
Maximum Continuous Operating Voltage (MCOV)				
MCOV DC			60	Vdc

### Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
Surge Protection Technology		MOV, GDT		
Surge Protection Modes		Signal to GND		
Response Time			25	ns
8/20µs Surge Current			20	kA
VPL 8/20µs L-G			375 @ 3000A	Vpk
Nominal Discharge Surge Current (In)		10		kA

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[DC Surge Protector SPD I2R Indoor DIN-Rail 48 Vdc Track Signal, Full-Mode, 20 kA MOV, GDT 1101-1157](#)

DC Surge Protector SPD I2R Indoor DIN-Rail 48 Vdc  
Track Signal, Full-Mode, 20 kA MOV, GDT

**1101-1157**  
I2R DSA



### Mechanical Specifications

#### Size

Height	5.31 in	[134.87 mm]
Width	1.42 in	[36.07 mm]
Depth	3.81 in	[96.77 mm]
Weight	1 lbs	[453.59 g]
Housing Material and Plating	20% Glass Filled Plastic	

### Environmental Specifications

#### Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C
Humidity	<95% non-condensing

### Installation

Mount Type	DIN-Rail
Service Wiring Terminal	
Spring Cage Clamp	#24 to #6 AWG
Status Indication Terminal	
2 Pin Connector	#16 AWG

### Compliance Certifications

RoHS Compliant	Yes
----------------	-----

Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [DC Surge Protector SPD I2R Indoor DIN-Rail 48 Vdc Track Signal, Full-Mode, 20 kA MOV, GDT 1101-1157](https://www.transtector.com/dc-surge-protector-spd-i2r-indoor-din-1101-1157-p.aspx)

URL: <https://www.transtector.com/dc-surge-protector-spd-i2r-indoor-din-1101-1157-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Transtector reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume any liability arising out of the use of any part or documentation.

1101-1157 CAD Drawing

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/17/19	DWR

  

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR CORPORATION. ALL RIGHTS RESERVED.

**TRANSTECTOR**

10701 AIRPORT ROAD, HAYDEN, ID. 83835  
 PHONE: 1.208.635.6400 | 1.800.882.9110  
 FAX: 1.208.955.2041  
 www.transsector.com | e-mail: sales@transsector.com

SHEET 1 OF 1  
SCALE 1:2

  
  

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS TOLERANCES: .X±.2 [5.08] XX±.01 [.25] XXX±.005 [.13]	FRACTIONS ± 1/32 ANGLES ± 1°	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. THIRD-ANGLE PROJECTION
SIZE A CAGE 30992	DRAWN BY HMB	PART NUMBER 1101-1157
REV A		REV A

  

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.