

SENSITRON

SEMICONDUCTOR

Transient Voltage Suppressor

PART NUMBER: SJ6105

PACKAGE STYLE: AxialTVS

CONFIGURATION: Transient Voltage Suppressor

-All ratings are @ Tc = 25 °C unless otherwise specified.

[Disclaimer](#)

MAXIMUM RATINGS / ELECTRICAL CHARACTERISTICS	SYMBOL	VALUE	UNITS
MIN BREAKDOWN VOLTAGE	Min V _{dc}	8.19	Vdc
TEST CURRENT	mAmps _{dc}	150	mAmps _{dc}
WORKING PEAK REVERSE VOLTAGE VRWM	V _{dc}	7	Vdc
MAXIMUM REVERSE CURRENT	I _{R1}	20	uAmps dc
MAXIMUM CLAMP VOLTAGE	VC(max)@I _p , tp=1ms	14	Volts(pk)
MAXIMUM PEAK PULSE CURRENT	I _p	35.7	Amps(pk)
MAXIMUM TEMPERATURE COEFFICIENT	VBR	0.06	%/°C
PEAK PULSE POWER	P _{pp}	500	Watts
OPERATING TEMPERATURE	T _o	-55 to +175	°C
STORAGE TEMPERATURE	T _o	-55 to +175	°C

NOTES:

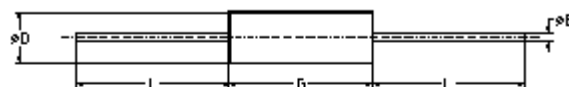
PR = 3W (for 1,500W) peak pulse power devices at TA = +25°C

PR = 5W (for 1,500W) peak pulse power devices at TL = +75°C for L = 0.375 inch (9.53mm).

PPR = 1,500W at tp = 1ms

MECHANICAL DIMENSIONS: In Inches / mm

AXIAL



500 W

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	φB	φD	G	L
AXIAL	.026/.033 .66/.84	.085/.140 2.16/3.56	.140/.185 3.56/4.70	1.00/1.30 25.4/33.02

1500 W

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	φB	φD	G	L
AXIAL	.036/.042 .92/1.07	.135/.185 3.43/4.70	.140/.195 3.56/4.95	1.00/1.30 25.4/33.02

***This drawing is for reference only.**

Data and specifications subject to change without notice.

DISCLAIMER:

1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron sales department for the latest version of the datasheet (s).

2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.

3- In no event shall Sensitron be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet (s).

Sensitron assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.

4- In no event shall Sensitron be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.

5- No license is granted by the datasheet (s) under any patents or other rights of any third party or Sensitron.

6- The datasheet (s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron.

7- The products (technologies) described in the datasheet (s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.

sales@sensitron.com

221 West Industry Ct., Deer Park, NY 11729-4681

PHONE (631) 586-7600 FAX (631) 242-9798