



Solid State Devices, Inc.

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DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

STN

Screening^{2/} = Not Screened
 TX = TX Level
 TXV = TXV
 S = S Level

Package

 = Axial
 SMS = SMS

Voltage/Family

6469 = 5.6V
 6470 = 6.5V
 6471 = 13.0V
 6472 = 16.4V
 6473 = 27.0V
 6474 = 33.0V
 6475 = 43.7V
 6476 = 54.0V

STN6469 – STN6476
 and
STN6469SMS – STN6476SMS

1,500 WATTS
PEAK PULSE POWER
5.6 – 54 VOLTS
UNI-DIRECTIONAL
TRANSIENT VOLTAGE
SUPPRESSOR

FEATURES:

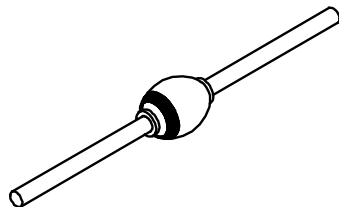
- 5.6 to 54 Volts Uni-Directional
- Bi-Directional Available – Consult Factory
- Hermetic Glass Diode
- 175°C Maximum Operating Temperature
- TX, TXV, and Space Level Screening Available - Consult Factory^{2/}
- Replacement for 1N6469 – 1N6476

APPLICATIONS:

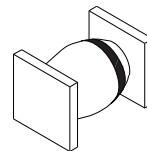
- Voltage Sensitive Component Protection
- Protection Against Power Surges
- Lightning Protection

MAXIMUM RATINGS	Symbol	Value	Units
Stand Off Voltage	V_{RRM} V_{RSM} V_R	5.6 – 54.0	Volts
Steady State Power Dissipation	P_D	6.0	Watts
Peak Pulse Power @ 1.0 msec	P_{PP}	1500	Watts
Operating and Storage Temperature	T_{op} & T_{stg}	-65 to +175	°C
Thermal Resistance	Junction to Lead for Axial, L = 3/8" $R_{\theta JL}$ Junction to End Tab for Surface Mount $R_{\theta JE}$	22 18	°C/W

AXIAL



SMS



NOTES:

- 1 For ordering information, price, operating curves, and availability – contact factory.
 2 Screening based on MIL-PRF-19500. Screening flows available on request.

NOTE: All specifications are subject to change without notification.
 SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: T00031C

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STN6469 – STN6476

ELECTRICAL CHARACTERISTICS (Note 1)	Standoff Voltage	Maximum Reverse Leakage	Reverse Breakdown Voltage	Test Current	Max Clamping Voltage (V _{CL}) @ Peak Pulse Current (I _{PP}) (Note 3)		Typical Temp. Coefficient of V _{BR}	Replacement JEDEC Part Numbers
					I _T	V _{CL}		
	V _{SO}	I _R @ V _{SO}	Voltage (V _{BR}) @ I _T					
			Min					
PART NUMBER	V _{SO}	I _R @ V _{SO}		I _T	V _{CL}	I _{PP}	(% / °C)	
UNIPOLAR	Volts	uA	Volts	mA	Volts	Amps		
STN6469	5	5000	5.6	50	9.0	167	0.04	1N6469
STN6470	6	5000	6.5	50	11.0	137	0.04	1N6470
STN6471	12	1000	13.0	10	22.6	66	0.05	1N6471
STN6472	15	1000	16.4	10	26.5	57	0.06	1N6472
STN6473	24	100	27.0	5	41.4	36.5	.084	1N6473
STN6474	30.5	5	33.0	1	47.5	32	.093	1N6474
STN6475	40.3	5	43.7	1	63.5	24	.094	1N6475
STN6476	51.6	5	54.0	1	78.5	19	.096	1N6476

FIGURE 1

DIMENSIONS		
DIM	MIN	MAX
A	0.130"	0.165"
B	0.140"	0.160"
C	0.038"	0.042"
D	1.00"	---

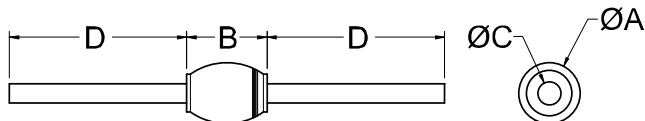
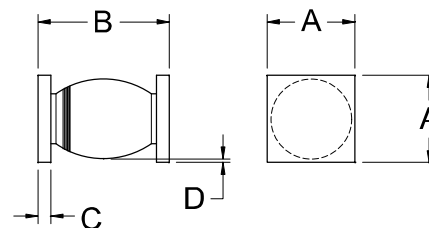


FIGURE 2

DIMENSIONS		
DIM	MIN	MAX
A	0.172"	0.178"
B	0.180"	0.230"
C	0.020"	0.028"
D	0.001"	---



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