



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
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**STN6469 – STN6476
 and
 STN6469SMS – STN6476SMS**

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

DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

STN

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

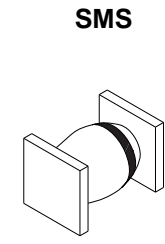
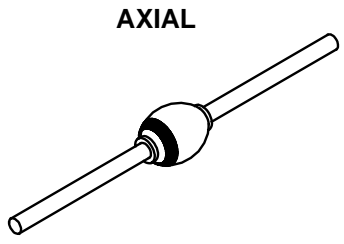
Package ___ = Axial
 SMS = SMS

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

- 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}	5.6 – 54.0	Volts
		V_{RSM}		
		V_R		
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"	$R_{\theta JL}$	22	°C/W
	Junction to End Tab for Surface Mount	$R_{\theta JE}$	18	



NOTES:

^{1/} For ordering information, price, operating curves, and availability – contact factory.
^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.
^{3/} 10/1000 μ S double exponential waveform.



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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
					V _{SO}	I _R @ V _{SO}		
	PART NUMBER	V _{SO}	I _R @ V _{SO}	Voltage (V _{BR}) @ I _R Min	I _R	V _{CL}	I _{PP}	
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"	---

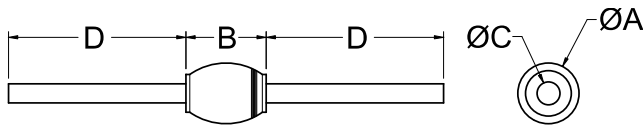
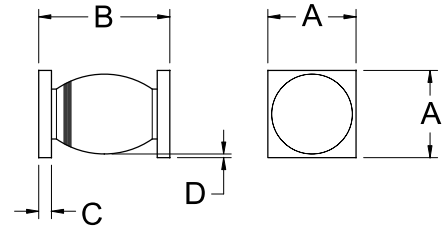


FIGURE 2

DIMENSIONS		
DIM	MIN	MAX
A	0.172"	0.205"
B	0.180"	0.275"
C	0.020"	0.028"
D	0.001"	---



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

DATA SHEET #: T00031E

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