



Solid State Devices, Inc.

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SDA676-12 thru SDA676-50

0.125 to 0.400 AMPS, 1,200 to 5,000 VOLTS STANDARD RECOVERY SINGLE PHASE BRIDGE RECTIFIER

Designer's Data Sheet

Part Number/Ordering Information^{1/}

SDA676 -

Screening^{2/}

___ = Not Screened

TX = TX Level

TXV = TXV

S = S Level

Peak Inverse Voltage

12 = 1,200V, 18 = 1,800V,

24 = 2,400V, 30 = 3,000V

36 = 3,600V, 42 = 4,200V

48 = 4,800V, 50 = 5,000V.

FEATURES:

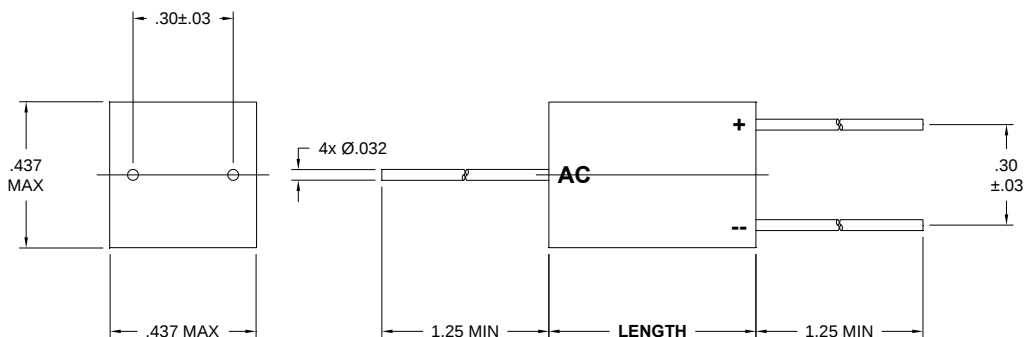
- Miniature High Voltage Bridges
- 0.125 to 0.400 Amp Ratings
- PIV 1,200 to 5,000 Volts
- Reverse Recovery Time 500ns Maximum
- Controlled Avalanche Characteristics
- Available in Fast, Ultra Fast and Hyper Fast Versions
- TX, TXV, and S-Level Screening Available
- Superior Replacement for Unitrode 676 Series

ELECTRICAL CHARACTERISTICS^{3/}

Part Number	Peak Inverse Voltage (per leg)	Body Size	Reverse Recovery Time ^{4/}	Average DC Output Current T _C =Case Temp		Non-Repetitive Sinusoidal Surge (8.3ms)	Maximum Forward Voltage Drop (per leg)		Maximum Reverse Current (per leg) @ PIV	
Symbol	PIV		T _{rr}	I _F (AV)		I _{FSM}	V _F		I _R	
Units	kV		ns	Amps		Amps	Volts	Amps	μA	
Conditions			Max	Air 25°C	Oil 100°C		V _F	I _F	25°C	100°C
SDA676-12	1.2	J	500	0.400	1.000	30	3.3	0.50	5	150
SDA676-18	1.8	K	500	0.350	0.850	30	4.0	0.50	5	150
SDA676-24	2.4	L	500	0.325	0.800	20	5.5	0.50	5	150
SDA676-30	3.0	M	500	0.250	0.625	20	7.7	0.50	5	150
SDA676-36	3.6	N	500	0.175	0.425	20	8.8	0.40	5	150
SDA676-42	4.2	O	500	0.150	0.375	20	9.5	0.35	5	150
SDA676-48	4.8	P	500	0.135	0.325	20	10	0.30	5	150
SDA676-50	5.0	P	500	0.125	0.300	20	10	0.25	5	150

NOTES:

1. For Ordering Information, Price, Curves, and Availability - Contact Factory.
2. Screened to MIL-PRF-19500.
3. Unless Otherwise Specified, T_A = 25°C.
4. Recovery Conditions:
I_F = 10mA, I_R = 10mA, I_{RR} = 5mA



Body Size	J	K	L	M	N	O	P
LENGTH, MAX	0.562"	0.668"	0.875"	1.125"	1.250"	1.375"	1.625"

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

DATA SHEET #: RA0076A

DOC