



SOLID STATE DEVICES, INC.

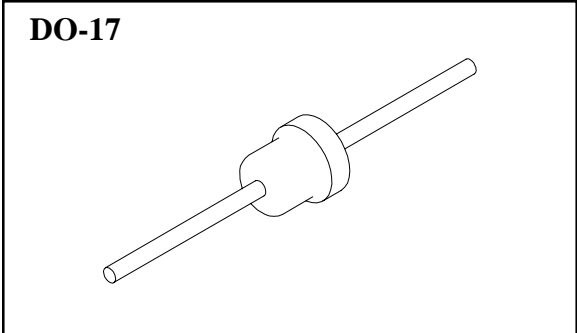
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
ssdi@ssdi-power.com * www.ssdi-power.com

**1N4394 and 1N4394A
1N4395 and 1N4395A**

Designer's Data Sheet

**SILICON
TUNNEL
DIODE**

- FEATURES:**
- Hermetically Sealed Axial Lead Package
 - Weldable Gold Plated Kovar Leads
 - Temperature Stability, Uniformity, and
 - Available in 5% ('A') or 10% Tolerance on Peak Point Current
 - Silicon Tunnel Diode Construction
 - Meets Requirements of MIL-PRF-19500
 - TX, TXV, and Space Level Screening Available
 - Surface Mount Devices Available



Maximum Ratings		SYMBOL	VALUE	UNITS
Maximum Forward Current (T _C = 25 °C) Derate Above T _C = 25 °C	1N4394, A	I _F	0.5	mA
	1N4395, A		1.0	
	1N4394, A		2.5	μA/°C
	1N4395, A		5.0	
Maximum Reverse Current	1N4394, A 1N4395, A	I _R	1.0 2.0	mA
Storage Temperature		T _{STG}	-65 TO +200	°C
Maximum Soldering Temperature L = 1/4", t = 10sec		T _{SLDR}	250	°C

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

DATA SHEET # : RC0067A

**1N4394 and 1N4394A
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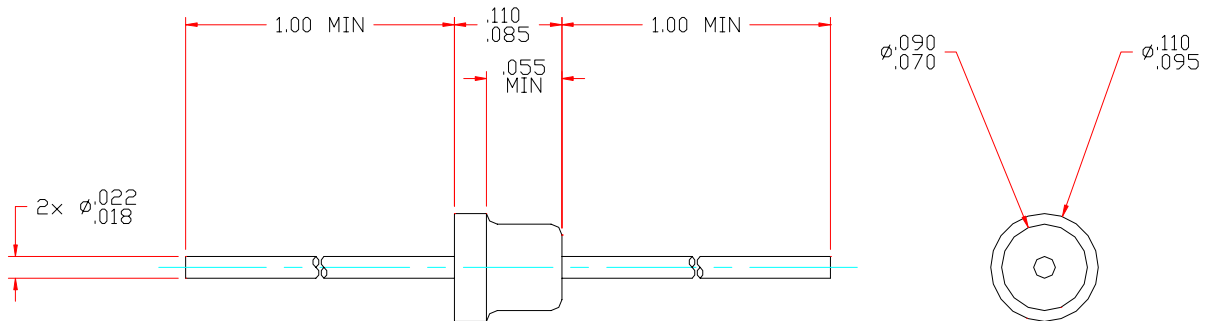
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ELECTRICAL CHARACTERISTICS

Part Number	Peak Point Current		Peak Point Voltage	Valley Point Current	Valley Point Voltage	Forward Voltage		Forward Current	Total Series Resistance	Valley Point Terminal Capacitance
Symbol	I_P		V_P	I_V	V_V	V_F @ I_F		I_F	R_S	C
Units	mA		mV	mA	mV	mV		mA	Ohms	pF
Conditions	MIN	MAX	MAX	MAX	MAX	MIN	MAX	MAX	MAX	MAX
1N4394A	.209	.231	80	65	480	680	1000	.231	7.0	90
1N4394	.200	.240	80	80	480	660	1000	.240	7.0	90
1N4395A	.45	.49	80	145	490	690	1000	.49	3.0	100
1N4395	.42	.52	80	170	490	670	1000	.52	3.0	100

**PACKAGE OUTLINE:
DO-17**



NOTES:

1. Consult manufacturing for operating curves.