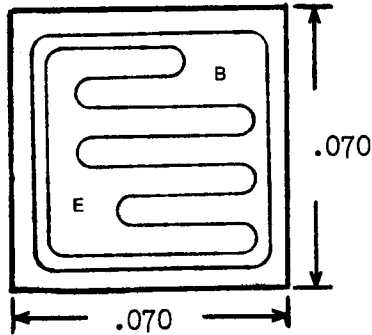


X00020

TR0006

ACTIVE

**STX 7904 / ~~7905~~ CHIP****HIGH VOLTAGE NPN TRANSISTOR  
MESA PASSIVATED**

Contact Area: .014 x .018

CONTACT METALLIZATION

Base/Emitter: &gt; 30,000 Å Aluminum

Collector: &gt; 2,000 Å Evaporated Gold

ASSEMBLY RECOMMENDATIONS

1. Eutectic Die Attach.
2. Ultrasonically Attach 5 MIL Aluminum Wire To Base/Emitter Contacts.

PARAMETER	TEST CONDITIONS *	TYPE	MIN.	MAX.	UNIT
BV <sub>CEO</sub>	IC=1mA	STX 7904	350		Vdc
		STX 7905	400		Vdc
BV <sub>CBO</sub>	IC=100uA	STX 7904	500		Vdc
		STX 7905	600		Vdc
BV <sub>CER</sub>	IC=100uA, RBE=1KOhm	STX 7904	500		Vdc
		STX 7905	600		Vdc
BV <sub>EBO</sub>	IE=20uA	ALL	10		Vdc
I <sub>EBO</sub>	VEB=10V	ALL		50	u Adc
I <sub>CBO</sub>	VCB=500V	STX 7904		50	u Adc
	VCB=600V	STX 7905		50	u Adc
h <sub>FE</sub>	VCE=5V, IC=500mA		20	65	
h <sub>FE</sub>	VCE=5V, IC=25mA		20	300	
h <sub>FE</sub>	VCE=5V, IC=1mA		20	250	
V <sub>BE(SAT)</sub>	IC=500mA, IB=100mA			1.0	Vdc
V <sub>CE(SAT)</sub>	IC=500mA, IB=100mA			500	mVdc
C <sub>OB</sub>	VCB=15V, f=2MHZ			20	pf
h <sub>fe</sub>	VCE=10V, IC=50mA, f=5MHZ		2		

\* Electrical characteristics measured at lot acceptance testing in a TO-5 package. Specifications subject to change without notice.

**SSDI** **SOLID STATE DEVICES, INC.**

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