

Semiconductor Technology Inc

-Background & History

- ❑ Founded in 1968
- ❑ Manufactured in USA
- ❑ ISO 9001:2008 factory approval
- ❑ Leader in High Voltage N-Channel Mosfet and High Voltage NPN/PNP Transistor types.
- ❑ Product line encompasses the most complete NPN/PNP Dual Transistor (dual differential transistors) line up
- ❑ Target Markets-Industrial, Telecommunications, Medical, and Military OEM's
- ❑ Quality assurance procedures and a zero-defects program in force for over 30 years.
- ❑ Devices can be processed to environmental and burn-in screening Class I, II, and III
- ❑ Meets military environmental requirements and is in compliance with ISO9001:2008

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Problems & Solutions

ALLOCATIONS –

- (A) **N-Channel Mosfets** average availability is 6 months w/some production in excess of 1 year. STI availability is stock to 5 weeks in 70% of production line.
- (B) **Bipolar Transistors** delivery on specific types can range to several months w/some product 1 year availability. STI's capabilities on 80% of production line is stock to 4 weeks. SCD requirements to military applications can extend past 2 years

SOLUTIONS – Semiconductor Technology, Inc. N-Channel Mosfets, Dual Differential Transistors, PNP/NPN Bipolar Transistors. STi can offer drop-in replacements to most common types.

REPLACEMENTS AVAILABLE FOR TYPICAL SERIES:

- MICROSEMI 2N.....APT.....
- ONSEMI/MOT MTM.....MTP.....MTW.....
- I.R./VISHAY IRF.....IRFP.....
- FAIRCHILD FC.....FD.....FQP....FQA
- SIEMENS BUZ.....
- TOSHIBA 2SK.....
- IXYS IXFH.....IXFW.....SPW....
- TEXAS TIP....

- Other types available

Industry lead-times in excess of 26 wks on some lines. Industry wide allocation also a problem.



STi can deliver from stock to 5wks!

POPULAR HIGH VOLTAGE TRANSISTORS**

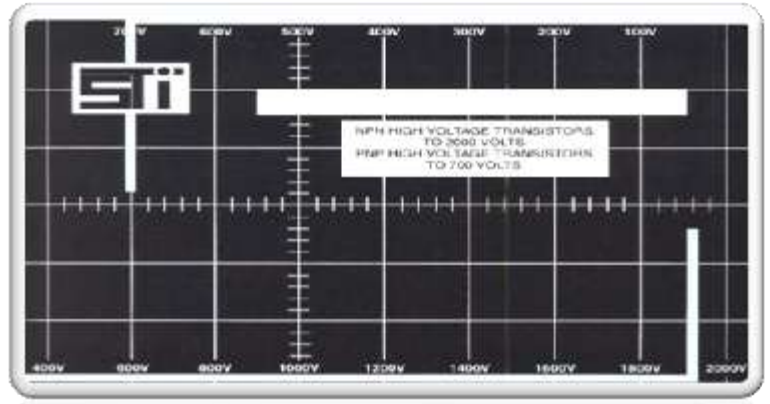
- STI OFFERS THE BROADEST RANGE OF COMPLIMENTARY HIGH VOLTAGE TRANSISTORS AVAILABLE IN THE INDUSTRY.
- POWER RATINGS FROM 0.3 TO 250 WATTS IN A WIDE VARIETY OF CASES.

*SERIES CONTAINS BOTH NPN & PNP POLARITIES

**PARTIAL LISTING



TYPE	CASE	POLARITY	TYPE	CASE	POLARITY	TYPE	CASE	POLARITY	TYPE	CASE	POLARITY
2N3439	TO-39	NPN	2N5682	TO-39	NPN	MJ10000			MJE5742	TO-220	NPN
2N3440	TO-39	NPN	2N6211			THRU	TO-3	NPN	MJE5850	TO-220	PNP
2N3501	TO-39	NPN	THRU	TO-66	PNP	MJ100009			MJE5851	TO-220	PNP
2N3583	TO-66	NPN	2N6214			MJ12002			MJE5852	TO-220	PNP
2N3585	TO-66	NPN	2N6308	TO-3	NPN	THRU	TO-3	NPN	MJE8500		
2N3902	TO-3	NPN	2N6499	TO-220	NPN	MJ12005			THRU	TO-220	NPN
2N4240	TO-66	NPN	2N6517	TO-92	NPN	MJ15012	TO-3	PNP	MJE8503		
2N5010			2N6520	TO-92	PNP	MJ15023	TO-3	PNP	MJH16002,A		
THRU	TO39	NPN	2N6545	TO-3	NPN	MJ15025	TO-3	PNP	THRU	TO-218	NPN
2N5015			2N6547	TO-3	NPN	MJ15027	TO-3	PNP	MJH16018		
2N5091			2N6575	TO-3	NPN	MJ16002			SVT4505-5	TO-3	NPN
THRU	TO-39	NPN/PNP*	2N6678	TO-3	NPN	THRU	TO-3	NPN	SVT6252	TO-3	PNP
2N5099			2N6931	TO-218	NPN	MJ16022			TIP48	TO-220	NPN
2N5101	MD-14	NPN	2N6933	TO-218	NPN	MJ16110	TO-3	NPN	TIP49	TO-220	NPN
2N5239	TO-3	NPN	DTS430	TO-3	NPN	MJ21193	TO-3	PNP	TIP50	TO-220	NPN
2N5240	TO-39	NPN	DTS660	TO-66	NPN	MJ21194	TO-3	NPN	TIP522	TO-39	PNP
2N5320	TO-39	NPN	DTS701	TO-3	NPN	MJE3439	TO-126	NPN	TIP525	TO-3	NPN
2N5322	TO-39	PNP	DTS804	TO-3	NPN	MJE3440	TO-126	NPN	TIP536	TO-3	NPN
2N5415	TO-39	PNP	DTS4062	TO-3	NPN	MJE5730	TO-220	PNP	TIPL760	TO-220	NPN
2N5416	TO-39	PNP	IR6060	TO-3	NPN	MJE5731	TO-220	PNP	TIPL763	TO-218	NPN
2N5655	TO-126	NPN	MJ8500			MJE5732	TO-220	PNP	TIPL774	TO-3	NPN
2N5657	TO-126	NPN	THRU	TO-3	NPN	MJE5740	TO-220	NPN			
2N5680	TO-39	PNP	MJ8505			MJE5741	TO-220	NPN			

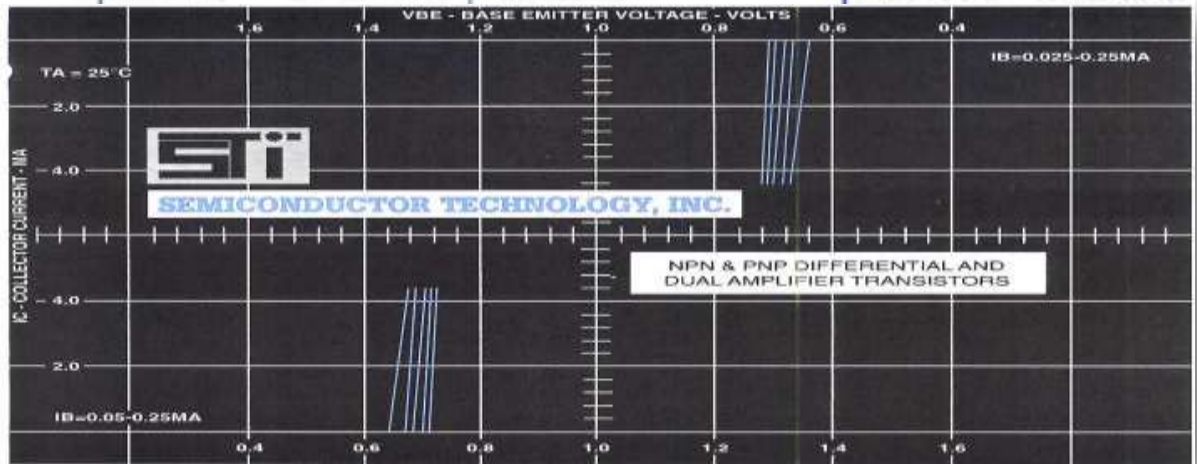


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NPN & PNP Differential & Dual Amplifier Transistors

STI OFFERS THE BROADEST RANGE NPN/PNP DIFFERENTIAL & DUAL AMPLIFIER TRANSISTORS IN THE INDUSTRY, WITH A WIDE VARIETY OF COLLECTOR CURRENTS, MATCHING & CASES

Type	Case	Polarity	Type	Case	Polarity	Type	Case	Polarity	Type	Case	Polarity	Type	Case	Polarity
2N2060	T0-77	NPN	2N3680	T0-77	NPN	2N5117	T0-78	PNP	MD708A	T0-78	NPN	MD3409	T0-78	NPN
2N2060A	T0-77	NPN	2N3726	T0-78	PNP	2N5118	T0-78	PNP	MD708B	T0-78	NPN	MD3410	T0-78	NPN
2N2060B	T0-77	NPN	2N3727	T0-78	PNP	2N5119	T0-78	PNP	MD918	T0-78	NPN	MD3467	T0-78	PNP
2N2223	T0-77	NPN	2N3728	T0-78	NPN	2N5120	T0-71	PNP	MD918A	T0-78	NPN	MD3725	T0-78	NPN
2N2223A	T0-77	NPN	2N3729	T0-78	NPN	2N5121	T0-71	PNP	MD918B	T0-78	NPN	MD3762	T0-78	PNP
2N2453	T0-77	NPN	2N3803	T0-71	PNP	2N5122	T0-71	PNP	MD982	T0-78	PNP	MD4957	T0-78	PNP
2N2639			2N3806	T0-78	PNP	2N5255/78	T0-78	PNP	MD984	T0-78	PNP	MD5000	T0-71	PNP
thru	T0-77	NPN	2N3807	T0-78	PNP	2N5256/78	T0-78	PNP	MD985	T0-78	NPN/PNP	MD5000A	T0-71	PNP
2N2644			2N3808	T0-78	PNP	2N5793	T0-78	NPN	MD986	T0-78	NPN/PNP	MD5000B	T0-71	PNP
2N2802			2N3809	T0-78	PNP	2N5794	T0-78	NPN	MD1120	T0-78	NPN	MD6001	T0-78	NPN/PNP
thru	T0-77	PNP	2N3810A	T0-78	PNP	2N5795	T0-78	PNP	MD1121	T0-78	NPN	MD6002	T0-78	NPN/PNP
2N2807			2N3836/78	T0-78	NPN	2N5796	T0-78	PNP	MD1122	T0-78	NPN	MD6003	T0-78	NPN/PNP
2N2903	T0-78	NPN	2N3907	T0-78	NPN	2N5843M	T0-78	PNP	MD1123	T0-78	PNP	MD7000	T0-78	NPN
2N2903A	T0-78	NPN	2N3908	T0-78	NPN	2N5844	T0-78	PNP	MD1129	T0-78	NPN	MD7001	T0-78	PNP
2N2913			2N4015	T0-78	PNP	2N6085			MD1130	T0-78	PNP	MD7002	T0-78	NPN
thru	T0-77	NPN	2N4016	T0-78	PNP	thru	T0-78	NPN	MD1132	T0-78	NPN	MD7002A	T0-78	NPN
2N2920A			2N4021	T0-77	PNP	2N6092			MD2218			MD7002B	T0-78	NPN
2N3043/78			2N4023M	T0-77	PNP	2N6441			thru	T0-78	NPN	MD7003	T0-78	PNP
thru	T0-78	NPN	2N4100	T0-78	NPN	thru	T0-78	NPN	MD2219A			MD7003A	T0-78	PNP
2N3048/78			2N4854	T0-78	NPN/PNP	2N6448			MD2369	T0-78	NPN	MD7003B	T0-78	PNP
2N3049/78	T0-78	PNP	2N4855	T0-78	NPN/PNP	2N6502	T0-78	NPN	MD2369A	T0-78	PNP	MD7004	T0-78	NPN
2N3050/78	T0-78	PNP	2N4878	T0-71	NPN	AD814M	T0-71	PNP	MD2369B	T0-78	NPN	MD7007	T0-78	NPN
2N3051/78	T0-78	PNP	2N4879	T0-71	NPN	AD815M	T0-71	PNP	MD2904			MD7007A	T0-78	NPN
2N3052/78	T0-78	NPN	2N4880	T0-71	PNP	AD816M	T0-71	PNP	thru	T0-78	PNP	MD7007B	T0-78	NPN
2N3347			2N4937	T0-78	PNP	AD820M	T0-71	PNP	MD2905A			MD7021	T0-78	NPN/PNP
thru	T0-77	PNP	2N4938	T0-78	PNP	AD821M	T0-71	PNP	MD3250			MD8001	T0-78	NPN
2N3352			2N4956	T0-77	NPN	AD822M	T0-71	PNP	thru	T0-78	PNP	MD8002	T0-78	NPN
						MD708	T0-78	NPN	MD3251A			MD8003	T0-78	NPN



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Semiconductor Technology Inc Transistors & Mosfets Are Direct Replacements for Microsemi

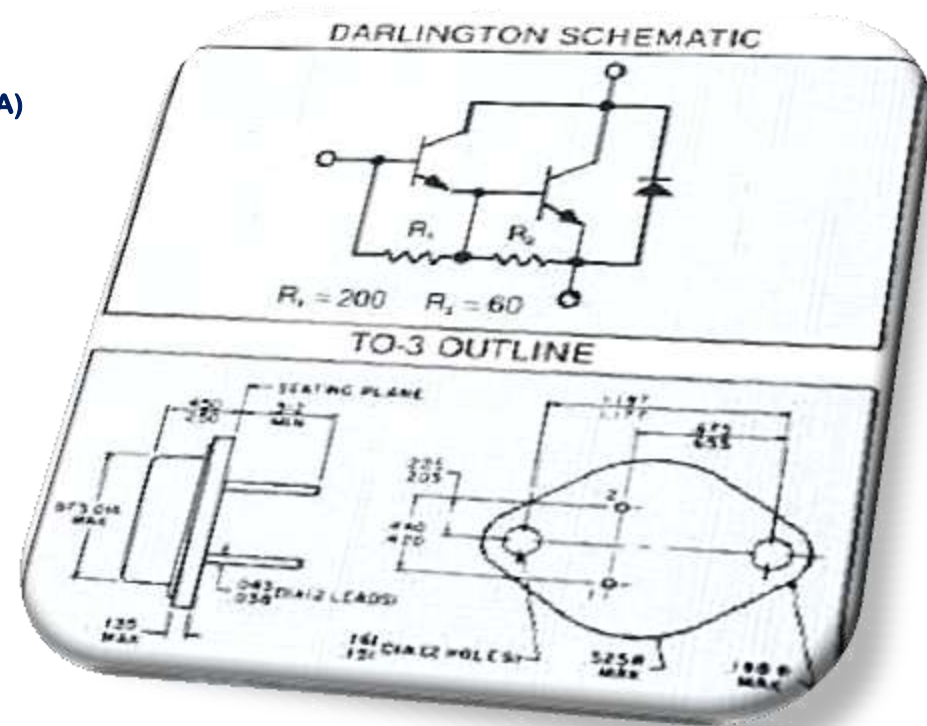
2N497	2N2432	2N3446	2N3788	2N4913	2N5407	2N5793	2N6424
2N498	2N2432A	2N3447	2N3789	2N4914	2N5415	2N5794	2N6425
2N656	2N2481	2N3448	2N3790	2N4915	2N5416	2N5795	2N6436
2N657	2N2484	2N3467	2N3791	2N4930	2N5427	2N5796	2N6437
2N657A	2N2708	2N3467L	2N3792	2N4931	2N5428	2N5804	2N6438
2N696	2N2726	2N3468	2N3810	2N5010	2N5429	2N5805	2N6465
2N697	2N2727	2N3468L	2N3810L	2N5011	2N5430	2N5838	2N6466
2N706	2N2857	2N3469	2N3811	2N5012	2N5466	2N5839	2N6467
2N706A	2N2890	2N3498	2N3811L	2N5013	2N5467	2N5840	2N6468
2N708	2N2891	2N3498L	2N3866	2N5014	2N5468	2N5954	2N6469
2N718A	2N2904	2N3499	2N3866A	2N5015	2N5469	2N5955	2N6470
2N720A	2N2904A	2N3499L	2N3867	2N5031	2N5541	2N5956	2N6471
2N744	2N2904AL	2N3500	2N3868	2N5038	2N5597	2N5970	2N6472
2N744A	2N2905	2N3500L	2N3878	2N5050	2N5598	2N6051	2N6495
2N757A	2N2905A	2N3501	2N3879	2N5051	2N5599	2N6052	2N6510
2N759A	2N2905AL	2N3501L	2N3902	2N5052	2N5600	2N6058	2N6511
2N760A	2N2906A	2N3506	2N4000	2N5067	2N5601	2N6059	2N6512
2N910	2N2906AL	2N3507	2N4001	2N5068	2N5602	2N6077	2N6513
2N911	2N2907	2N3583	2N4029	2N5069	2N5603	2N6078	2N6514
2N912	2N2907A	2N3584	2N4033	2N5091	2N5604	2N6079	2N6542
2N918	2N2907AL	2N3585	2N4150	2N5092	2N5605	2N6211	2N6543
2N930	2N2919	2N3619	2N4225	2N5093	2N5606	2N6212	2N6544
2N1131	2N2919L	2N3620	2N4231	2N5094	2N5607	2N6213	2N6546
2N1131L	2N2920	2N3634	2N4233	2N5095	2N5608	2N6214	2N6547
2N1132	2N2920L	2N3634L	2N4233A	2N5096	2N5609	2N6232	2N6560
2N1132L	2N2944A	2N3635	2N4235	2N5097	2N5610	2N6233	2N6561
2N1479	2N2945A	2N3635L	2N4236	2N5098	2N5611	2N6234	2N6579
2N1480	2N2946A	2N3636	2N4237	2N5099	2N5612	2N6235	2N6580
2N1481	2N2983	2N3636L	2N4238	2N5109	2N5660	2N6249	2N6581
2N1482	2N2984	2N3637	2N4239	2N5147	2N5667	2N6250	2N6582
2N1488	2N2985	2N3637L	2N4240	2N5148	2N5662	2N6251	2N6583
2N1489	2N2986	2N3660	2N4300	2N5149	2N5663	2N6255	2N6584
2N1490	2N2987	2N3661	2N4305	2N5150	2N5664	2N6270	2N6671
2N1613	2N2988	2N3675	2N4307	2N5151	2N5665	2N6271	2N6672
2N1613A	2N2989	2N3676	2N4309	2N5151L	2N5666	2N6274	2N6673
2N1613L	2N2990	2N3700	2N4311	2N5152	2N5667	2N6275	2N6674
2N1700	2N2991	2N3715	2N4387	2N5152L	2N5679	2N6276	2N6675
2N1711	2N2992	2N3716	2N4388	2N5153	2N5680	2N6277	2N6676
2N1714	2N2993	2N3719	2N4398	2N5153L	2N5681	2N6283	2N6677
2N1715	2N2994	2N3720	2N4399	2N5154	2N5682	2N6284	2N6678
2N1716	2N3016	2N3735	2N4405	2N5154L	2N5683	2N6286	2N6686
2N1717	2N3017	2N3735L	2N4427	2N5157	2N5684	2N6287	2N6687
2N1890	2N3018	2N3738	2N4854	2N5179	2N5685	2N6303	2N6688
2N1893	2N3019	2N3739	2N4864	2N5202	2N5686	2N6304	2N6835
2N2060	2N3053	2N3740	2N4877	2N5237	2N5729	2N6322	2N6836
2N2060L	2N3202	2N3740A	2N4895	2N5238	2N5732	2N6323	2N6837
2N2102	2N3203	2N3741	2N4896	2N5240	2N5734	2N6326	IRF430
2N2102A	2N3204	2N3762	2N4897	2N5241	2N5737	2N6327	IRF431
2N2106	2N3208	2N3762L	2N4898	2N5264	2N5738	2N6328	IRF432
2N2107	2N3245	2N3763	2N4899	2N5321	2N5739	2N6338	IRF433
2N2108	2N3250A	2N3763L	2N4900	2N5322	2N5740	2N6339	IRF440
2N2218	2N3251A	2N3766	2N4901	2N5323	2N5741	2N6340	IRF441
2N2218A	2N3418	2N3767	2N4902	2N5326	2N5742	2N6341	IRF442
2N2218AL	2N3419	2N3771	2N4903	2N5327	2N5745	2N6372	IRF443
2N2218L	2N3420	2N3772	2N4904	2N5333	2N5758	2N6373	IRF450
2N2219	2N3421	2N3774	2N4905	2N5334	2N5759	2N6374	IRF451
2N2219AL	2N3439	2N3775	2N4906	2N5336	2N5760	2N6383	IRF452
2N2219L	2N3439L	2N3776	2N4907	2N5337	2N5781	2N6384	IRF453
2N2221A	2N3440	2N3777	2N4908	2N5338	2N5782	2N6385	
2N2221AL	2N3440L	2N3778	2N4909	2N5339	2N5783	2N6420	
2N2222A	2N3441	2N3779	2N4910	2N5404	2N5784	2N6421	
2N2222AL	2N3442	2N3781	2N4911	2N5405	2N5785	2N6422	
2N2369A	2N3445	2N3782	2N4912	2N5406	2N5786	2N6423	

Major Source for NPN High Voltage Darlington Power Transistors in TO-3

Delco discontinued DTS series replacements.

TYPE #	STI TYPE #	BVCER* (v)	BVCEO (V)	hFE (min)	@ IC (A)
DTS-4010	STI-4010	250	250	150	1
DTS-4025	STI-4025	400	275	150	5
DTS-4026	STI-4026	600	300	150	5
DTS4039	STI-4039	400	300	200	3
DTS-4040	STI-4040	600	400	250	3
DTS-4041	STI-4041	400	300	250	3
DTS-4045	STI-4045	600	400	500	3
DTS4059	STI-4059	600	350	5	15
DTS-4060	STI-4060	600	350	8	15
DTS-4061	STI-4061	600	350	8	15
DTS-4065	STI-4065	600	350	15	15
DTS-4066	STI-4066	600	350	75	10
DTS-4067	STI-4067	600	350	150	10
DTS-4074	STI-4074	600	350	5	25
DTS-4075	STI-4075	600	350	10	25

* ABE = 10k



Semiconductor Technology Inc- acquired discontinued product lines

Semiconductor Technology, Inc. established in 1968, has maintained the highest quality in the industry. In the 1970's & 1980's, Semiconductor Technology, Inc. purchased the following product lines:

- A) **Sprague Electric** – Dual Transistors, RF Transistors, and General Purpose Transistors.
- B) **Delco Semiconductor** – High Voltage NPN Power Transistors, High Voltage NPN Darlington Transistors.
- C) **General Instrument** – N-Channel Power Mosfets, General Purpose Transistors, and Dual Transistors.
- D) **Hughes Aircraft Co.** – PNP Bipolar Transistors, Dual Transistors, and High Voltage PNP Transistors.
- E) **G.E. Intersil** – NPN/PNP Dual Transistors & Specialty Transistors

Semiconductor Technology, Inc.'s customer base consists of 70% Fortune 500 Companies. A few of our major customers are:

Caterpillar
Con Edison
Crane Eldec
Electromotive
G.E.
G.E. Aero

Honeywell
L-3 Communications
Lockheed Martin
Northrup Grumman
Pfizer Pharmaceutical

Raytheon
Rockwell Collins
Schlumberger
Smith's Aerospace
Tyco Healthcare

STI is also approved at Defense Electronic Supply Center – Dayton, OH and the Naval Warfare in Crane, IN. This is just a short list.