

New Jersey Semi-Conductor Products, Inc.

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U.S.A.

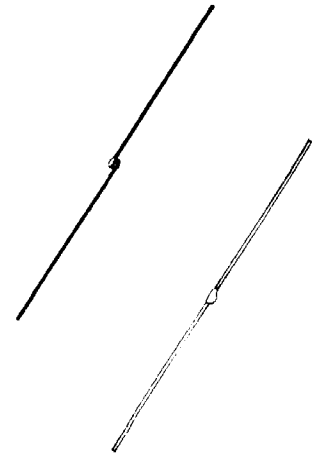
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TYPE	
TD261,A	TD271,A
TD262,A	TD272,A
TD263,A,B	TD273,A,B
TD264,A	TD274,A
TD265,A	TD275,A
TD266,A	TD276,A

absolute maximum ratings: (25°C)

TD261	TD262	TD263	TD264	TD265	TD266
TD261A	TD262A	TD263A	TD264A	TD265A	TD266A
TD271	TD272	TD263B	TD274	TD275	TD276
TD271A	TD272A	TD273	TD274A	TD275A	TD276A
		TD273A			
		TD273B			

Maximum Power Dissipation	1.5	3.5	7	7.5	18	35	mw
Operating and Storage Temperature	-55 to +100°C						°C
Lead Temperature	230						°C
1/16" ± 1/32" from case for 10 seconds							



*Derate maximum forward current 1% per °C for ambients in excess of 25°C.

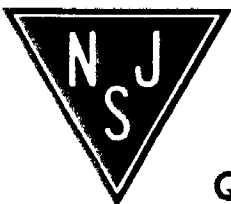
electrical characteristics: (25°C)

	COLOR DOT**	BROWN			BROWN/GRAY			RED			RED/GRAY			
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Peak Point Current	I _p	2.0	2.2	2.4	2.0	2.2	2.4	4.2	4.7	5.2	4.2	4.7	5.2	ma
Valley Point Current	I _v		.20	.31		.22	.31		.45	.60		.45	.60	ma
Peak Point Voltage	V _p		70	100		80	110		80	110		90	120	mv
Valley Point Voltage	V _v		390			390			390			400		mv
Forward Voltage														
(I _F = I _p)	V _{FP} *	500	540	650	500	580	650	500	560	650	500	575	650	mv
(I _F = .25 I _p)	V _{FS}	420	500		420	500		435	510		435	530		mv
Total Series Inductance														
TD260	L _S		1.5			1.5			1.5			1.5		nh
TD270	L _S		.15			.15			.15			.15		nh
Total Series Resistance	R _S		5			7			3.5			4.0		ohms
Valley Point Terminal Capacitance	C _v		1.8	3.0		0.65	1.0		2.8	6.0		0.65	1.0	pf
Rise Time	t _r ***		430			160			320			74		Psec

*Max V_{FP} on TD270 devices is 675 mv

**TD270 series marked with white cathode dot only

***Switching speed with constant current drive, $t_r \approx \frac{V_{FP} - V_P}{I_P - I_V} C_v$



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Quality Semi-Conductors

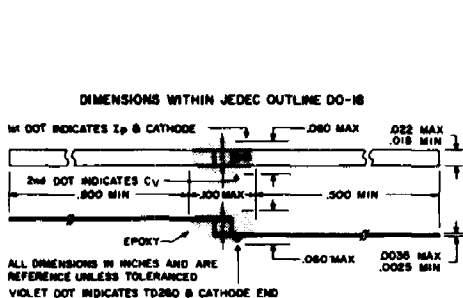
TD261,A - 66,A	TD271,A - 76,A
TD263,B	TD273,B

electrical characteristics: (25°C)

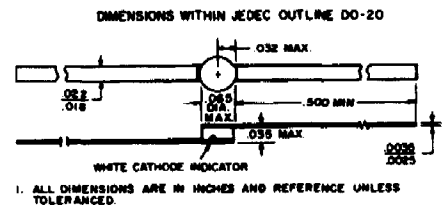
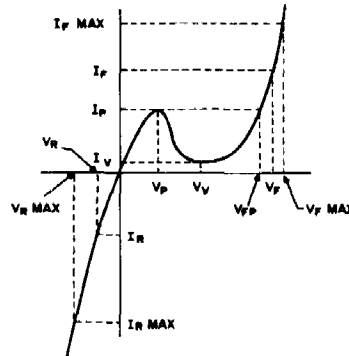
		TD263 TD273			TD263A TD273A			TD263B TD273B			TD264 TD274			TD264A TD274A			
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Peak Point Current	I_p	9.0	10	11	9.0	10	11	9.0	10	11	20	22	24	20	22	24	ma
Valley Point Current	I_v		0.9	1.4		0.9	1.4		0.9	1.4		2.7	3.1		2.7	3.1	ma
Peak Point Voltage	V_p		75	100		80	110		90	120		90	115		100	130	mv
Valley Point Voltage	V_v		400			410			420			425			425		mv
Forward Voltage																	
($I_F = I_p$)	V_{FP}^*	500	560	650	520	570	650	550	600	670	500	580	650	550	610	680	mv
($I_F = .25 I_p$)	V_{FS}	450	510		450	530		450	540			520		460	540		mv
Total Series Inductance																	
TD260	L_S		1.5			1.5			1.5			1.5			1.5		nh
TD270	L_S		.15			.15			.15			.15			.15		nh
Total Series Resistance	R_S		1.7			2.0			2.5			1.8			2.0		ohms
Valley Point Terminal Capacitance	C_V		6.5	9.0		3.5	5.0		1.2	2.0		7.0	18		2.5	4.0	pf
Rise Time	t_r^{***}		350			190			68			185			64		Psec

electrical characteristics: (25°C)

		TD265 TD275			TD265A TD275A			TD266 TD276			TD266A TD276A						
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.				
Peak Point Current	I_p		45	50	55	45	50	55	90	100	110	90	100	110	ma		
Valley Point Current	I_v			6.0	8.5		6.0	8.5		12.0	17.5		12.0	17.5	ma		
Peak Point Voltage	V_p			110	180		130	200		150	210		180	260	mv		
Valley Point Voltage	V_v			425		425				450			450		mv		
Forward Voltage																	
($I_F = I_p$)	V_{FP}		520	625	700	550	640	750	520	650	720	550	680	800	mv		
($I_F = .25 I_p$)	V_{FS}			530		480	550			530		500	550		mv		
Total Series Inductance																	
TD260	L_S			1.5			1.5			1.5			1.5				nh
TD270	L_S			.15			.15			.15			.15				nh
Total Series Resistance	R_S			1.4			1.5			1.1			1.2				ohms
Valley Point Terminal Capacitance	C_V			8.5	25		3.0	5.0		10.0	35		4.0	6.0			pf
Rise Time	t_r^{***}			100			35			57			22				Psec



TD260 SERIES



TD270 SERIES