

New Jersey Semi-Conductor Products, Inc.

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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.

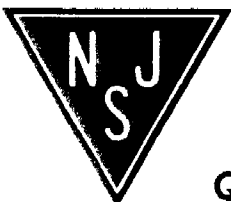
electrical characteristics: (25°C)

COLOR DOT**		BROWN			BROWN/GRAY			RED			RED/GRAY			
		TD261 TD271			TD261A TD271A			TD262 TD272			TD262A TD272A			
		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, $t_r \approx \frac{V_{FP} - V_p}{I_p - I_v} C_v$



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

electrical characteristics: (25°C)

electrical characteristics: (25°C)

TD260 SERIES

