DIGITRON SEMICONDUCTORS

1N6521-1N6527 RECTIFIERS

MAXIMUM RATINGS

Parameter	Value
Operating temperature range	-65° to +175°C
Storage temperature range	-65° to +200°C

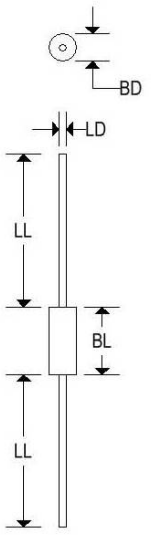
ELECTRICAL CHARACTERISTICS

Part number	Working reverse voltage	Average rectified current		Reverse current @ VRWM		Forward voltage		1 cycle surge current t_p = 8.3ms	Repetitive surge current	Reverse recovery time[3]	Thermal impedance			Junction capacitance @50Vdc @ 1kHz
	V_{RWM}	I_O		I_R		V_F		I_{FSM}	I_{FRM}	T_{rr}	Θ_{J-L}			C_J
		55°C[1]	100°C[2]	25°C	100°C	25°C		25°C	25°C	25°C	L = 0.000	L = 0.125	L = 0.250	25°C
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
1N6521	2000	0.500	0.250	0.5	20	3.0	0.50	25	5	70	5	12	21.5	8
1N6523	3000	0.250	0.125	0.5	20	5.0	0.25	15	3	70	5	12	21.5	4
1N6525	5000	0.150	0.075	0.5	20	7.0	0.15	10	2	70	5	12	21.5	3
1N6527	10000	0.100	0.050	0.5	20	12.0	0.10	5	1	70	5	12	21.5	2

Note 1: T_L = 55°C, L = 0.375"
Note 2: T_L = 100°C, L = 0.375"
Note 3: I_F = 125mA, I_R = 250mA, I_{RR} = 63mA

MECHANICAL CHARACTERISTICS

Case	Digi L
Marking	Body painted, alpha-numeric
Polarity	Cathode band



	Digi L			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.110	-	2.794
BL	-	0.235	-	5.969
LD	0.028	0.032	0.711	0.813
LL	1.000	-	25.400	-

Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).
Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.

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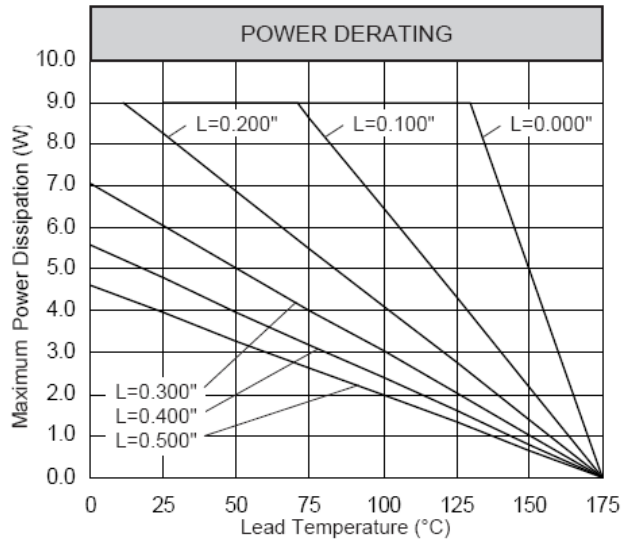
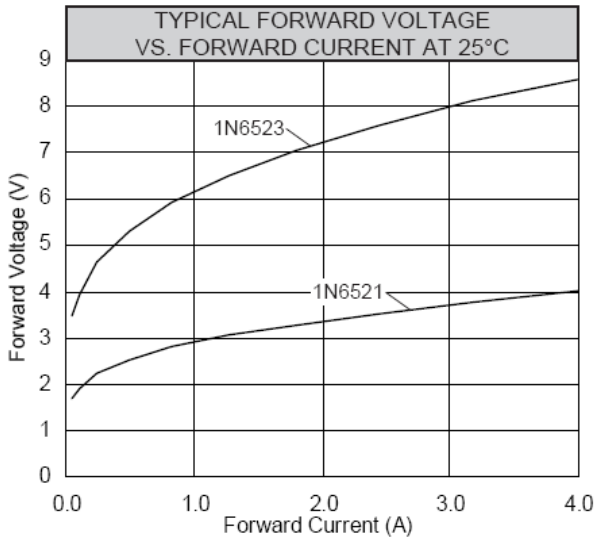
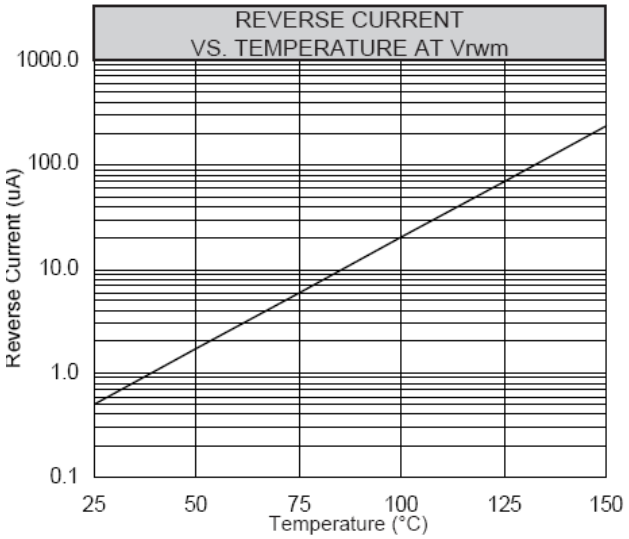
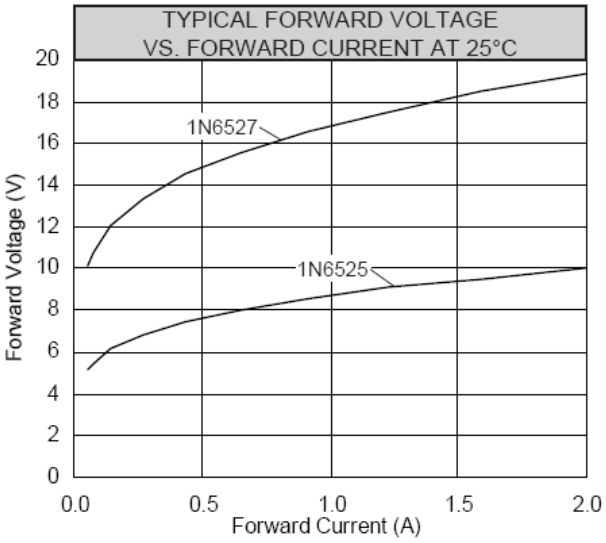
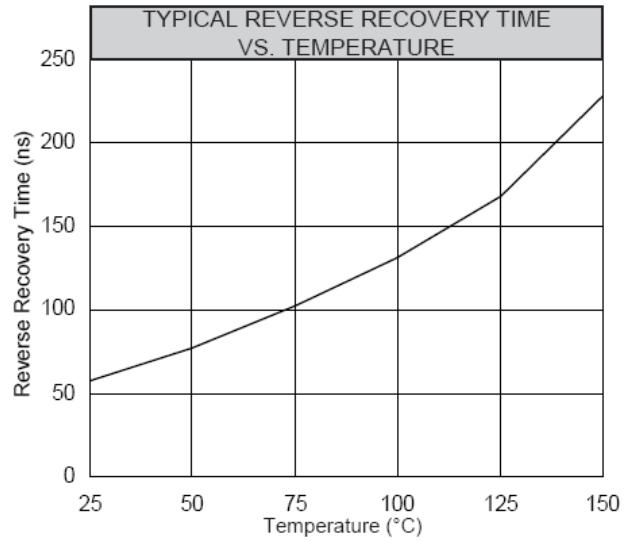
1N6521-1N6527 **RECTIFIERS**

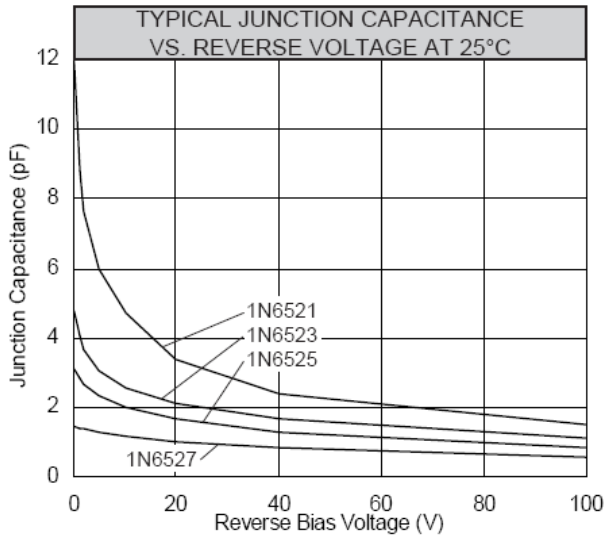












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