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# Germanium Diodes

## 1N3712-21

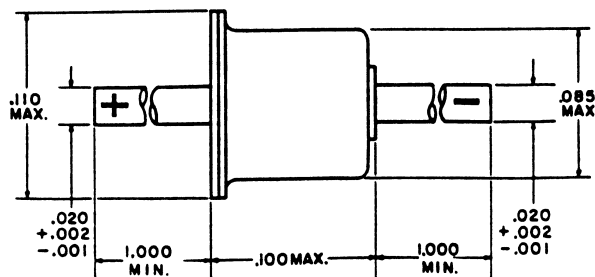
	1N3712	1N3714	1N3716	1N3718	1N3720	
	1N3713	1N3715	1N3717	1N3719	1N3721	
Forward Current*	5	10	25	50	100	ma
Reverse Current*	10	20	50	50	100	ma
Storage Temperature	← -55 to +100 →					°C
Lead Temperature $\frac{1}{16}'' \pm \frac{1}{32}''$ from case for 10 seconds	← 260 →					°C

\*Derate maximum currents 1% per °C ambient temperature above 25°C.

### electrical characteristics:

STATIC CHARACTERISTICS		1N3717			1N3718			1N3719			1N3720		
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Peak Point Current	$I_P$	4.58	4.70	4.82	9.0	10.0	11.0	9.75	10.00	10.25	20	22	24
Valley Point Current	$I_V$	.350	.45	.60	1.3	2.2	.75	.95	1.40		2.9	4.8	
Peak Point Voltage	$V_P$	58	65	72	65		58	65	72		65		
Valley Point Voltage	$V_V$	315	355	395	350		315	355	395		350		
Reverse Voltage ( $I_R = I_P$ typ.)	$V_R$		20	40			40		20	40			40
Forward Voltage ( $I_F = I_P$ typ.)	$V_{FP}$	475	510	535	500		475	510	535		500		
	( $I_F = .25 I_P$ typ.)	$V_{FS}^*$	410	450			410	450					
DYNAMIC CHARACTERISTICS													
Total Series Inductance	$L_S$		0.5		0.5		0.5		0.5		0.5		
Total Series Resistance	$R_S$		.52	2.0	.30	1.5	.36	1.5	.20	1.0			
Valley Point Terminal Capacitance	$C$		13	25	50	90	27	50	90	150			
Max. Negative Terminal Conductance	$-G$		36	41	46	80	75	85	95	180			
Resistive Cutoff Frequency	$f_{r\omega}$		3.4		1.6		2.8		1.6				
Self-Resonant Frequency	$f_{rs}$		1.9		.97		1.3		.67				
Frequency of Oscillation	$F_{osc}^{**}$		2.0		1.0		1.4		.74				
Rise Time	$t_r^{***}$		1.4				1.3						

### AXIAL DIODE OUTLINE



ALL DIMENSIONS IN INCHES.  
 DIMENSIONS ARE REFERENCE UNLESS TOLERANCED.

