V1

+

V1

9V
Rser=10

R1
12.1K

Vb

R2
{Rp}

Q1
2N2222

R3
100

VLED

D1

.lib WP710A10QBC.SP3

WP710A10QBC-2

.tran 0 1ms 0 1us startup   .step param Rp 5K 15K 5K