

Fig. EN1.1 - Caratteristica ideale del diodo a giunzione.

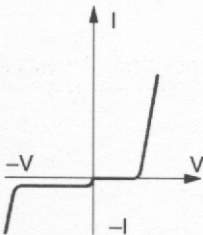


Fig. EN1.2 - Caratteristica reale del diodo a giunzione.

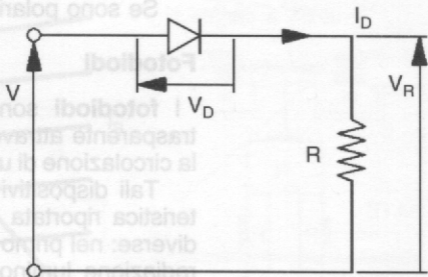


Fig. EN1.3 - Circuito con diodo e resistenza.

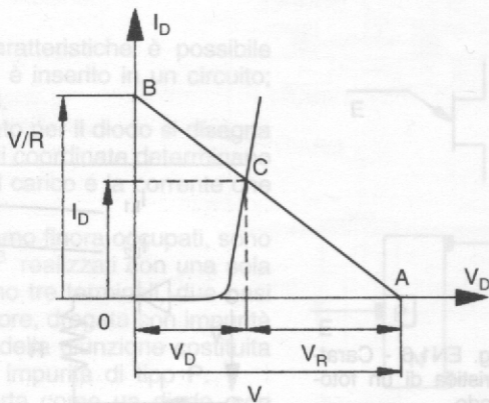


Fig. EN1.4 - Caratteristica di polarizzazione del diodo.

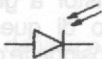
DIODO



DIODO LED

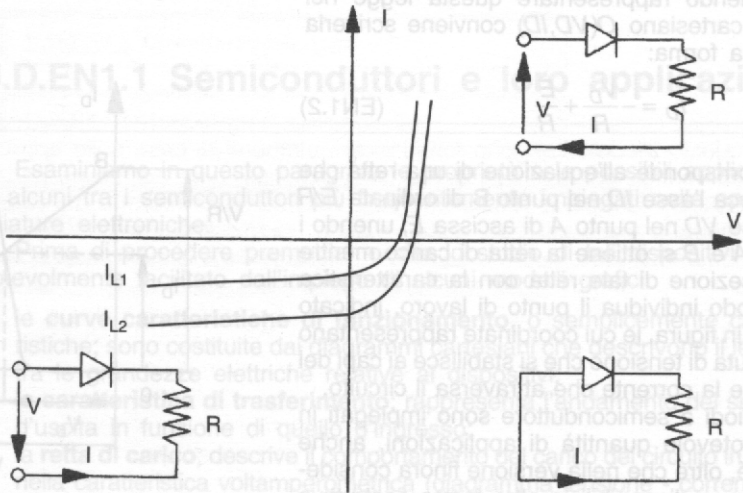


FOTODIODO



DIODO ZENER





U.D. EN1.1 Semiconduttori e loro applicazioni

(E.I.S.)

B

$I_{L1}$

$I_{L2}$

$R$

$R$

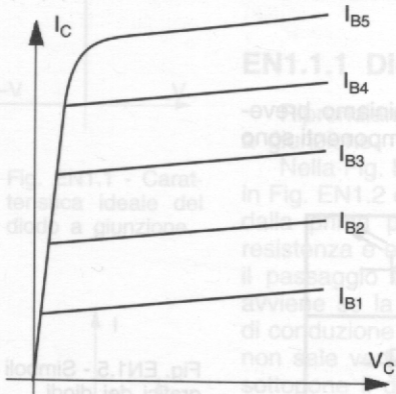
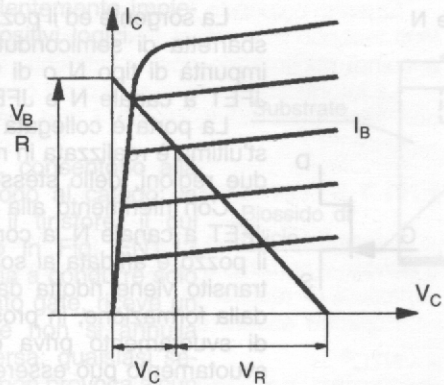
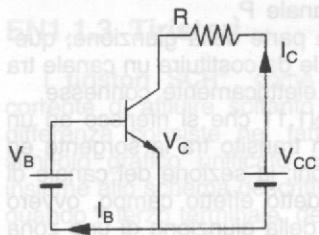
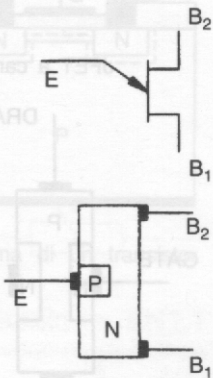


Fig. EN1.1 - Caratteristica ideale del diodo a giunzione

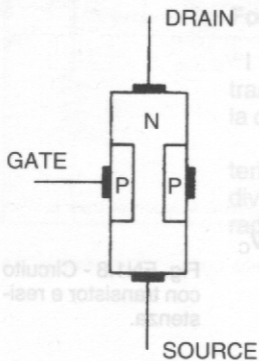
Fig. EN1.2 - Simboli pratici dei diodi

EN1.1.1 Diodo  
-eventi, orsini  
ono il noqmo  
Nella Fig. EN1  
in Fig. EN1.2 è in  
dalla per  
resistenza è gleye  
il passaggio di  
avviva la ten  
di conduzione la  
al enoizudno di  
non sale  
solto

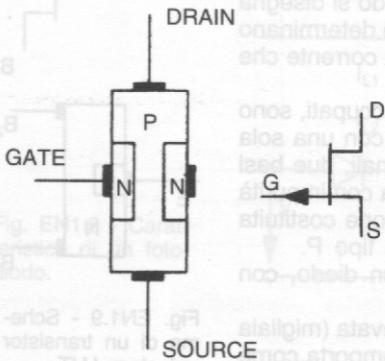




### JFET a canale N

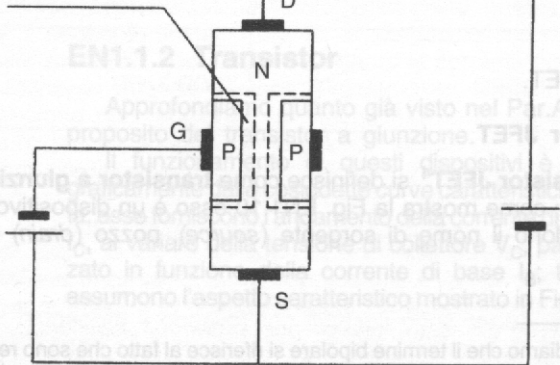


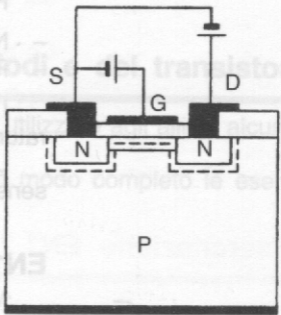
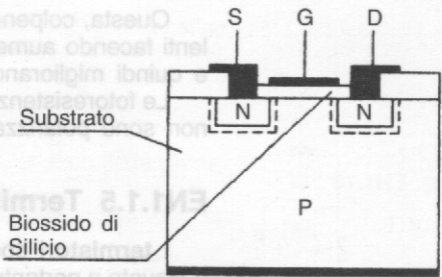
### JFET a canale P





Zona di svuotamento





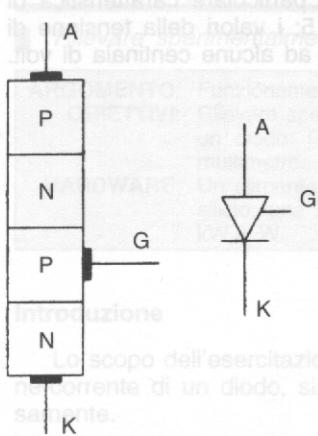


Fig. EN1.13 - Tiristore SCR.

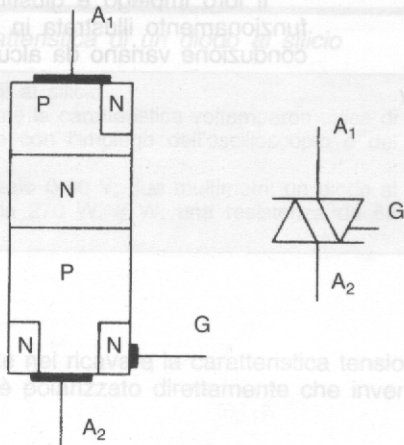


Fig. EN1.14 - Tiristore TRIAC.

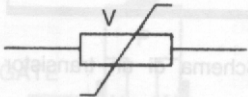
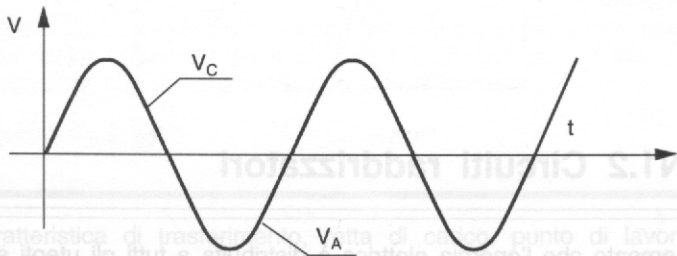
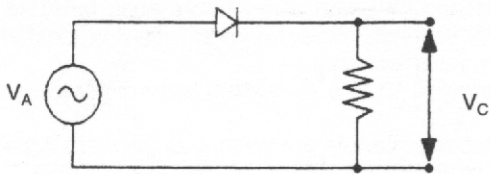
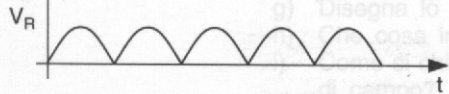
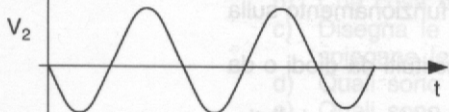
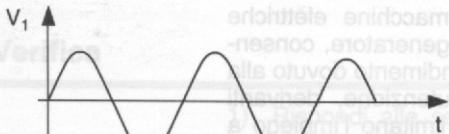
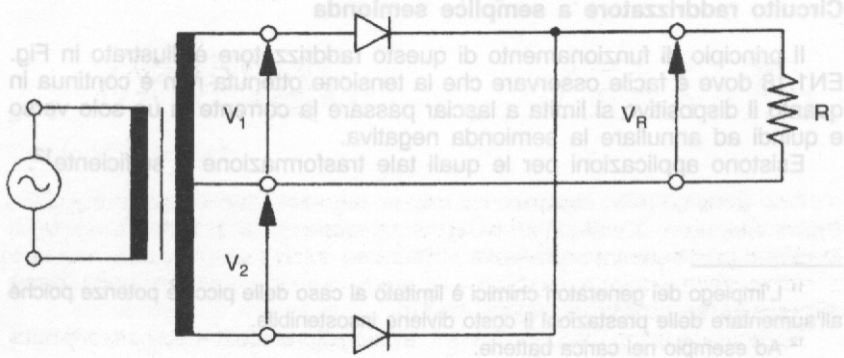
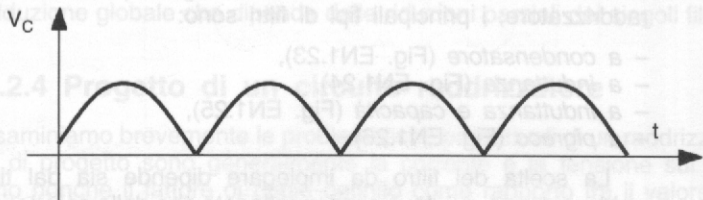
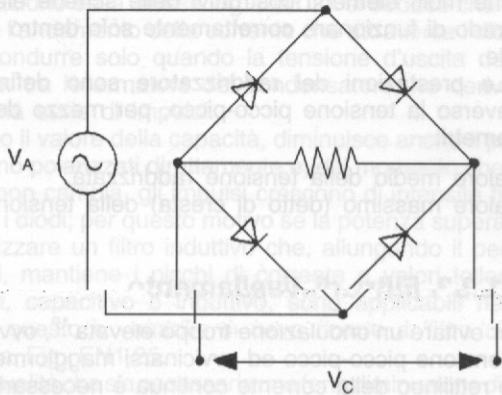


Fig. EN1.10 - Schema di un unipolare JFET.











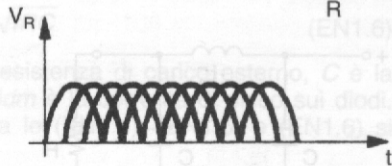
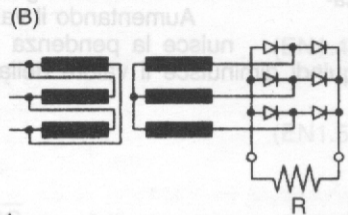
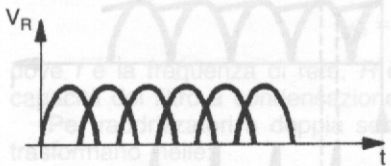
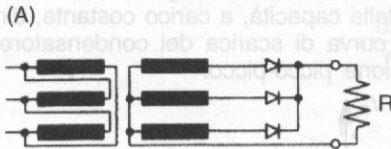




Fig. EN1.18 - Circuito raddrizzatore a semionda

Fig. EN1.24 - Filtro di livellamento ad induttanza.

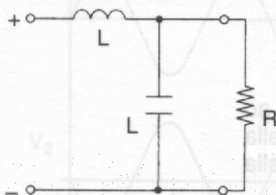
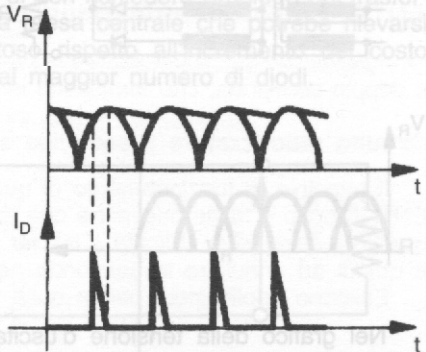
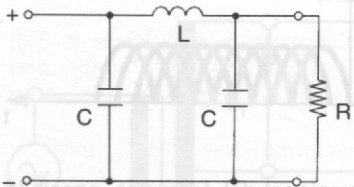
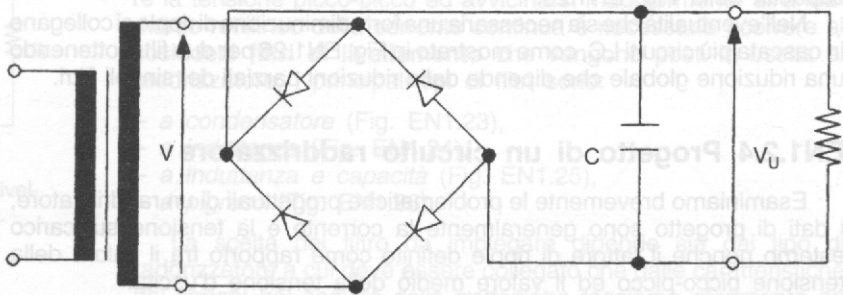
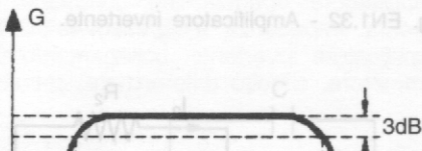


Fig. EN1.25 - Filtro di livellamento a induttanza e capacità.





$V_u/V_i$	dB	$V_u/V_i$	dB	$P_u/P_i$	dB	$P_u/P_i$	dB
$I_u/I_i$		$I_u/I_i$					
1	0	40	32	1	0	50	17
1,4	3	50	34	2	3	80	19
2	6	80	38	4	6	100	20
4	12	100	40	5	7	1000	30
5	14	200	46	10	10	10000	40
10	20	1000	60	20	13		
20	26	10000	80	40	16		



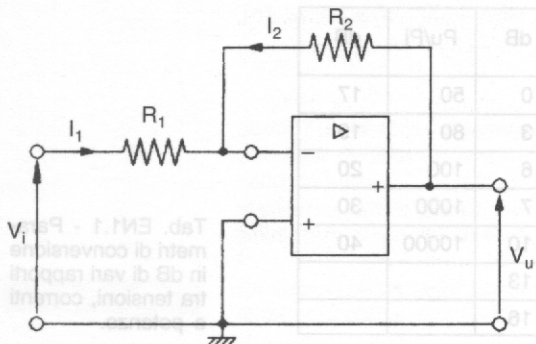
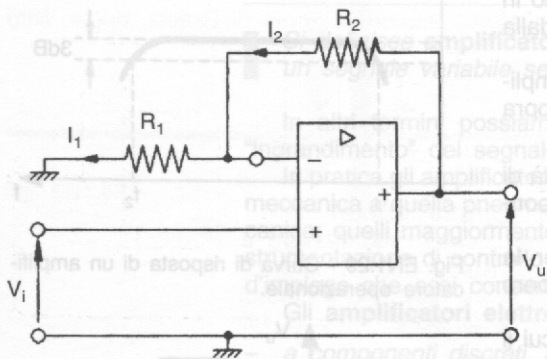


Fig. EN1.32 - Amplificatore invertente.



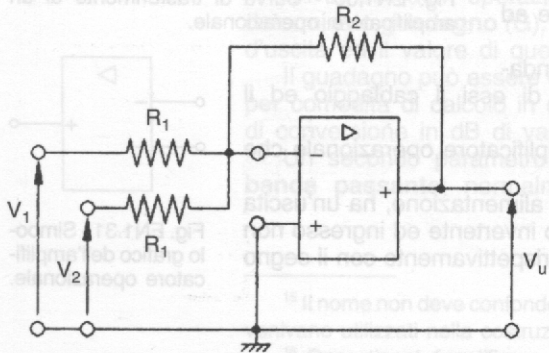
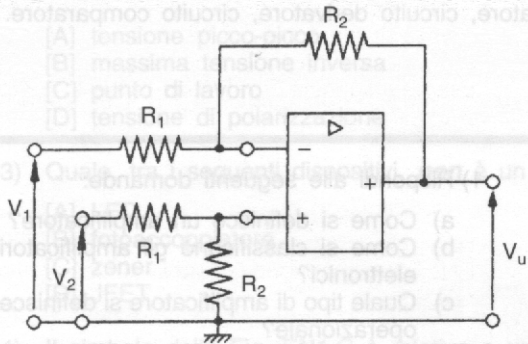
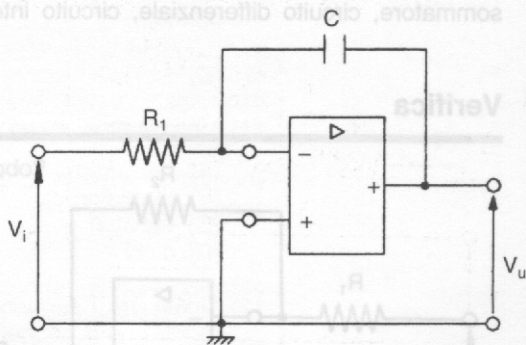


Fig. EN1.34 - Amplificatore sommatore invertente.

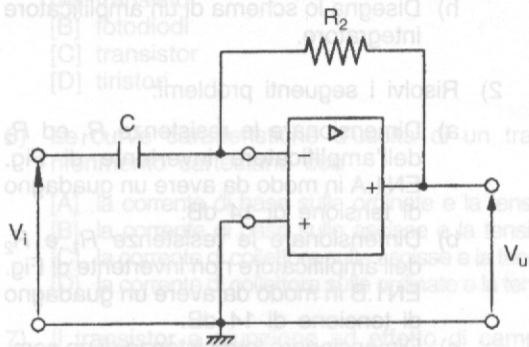




$$V_u = -(V_1 - V_2)R_2/R_1$$



$$V_u = \frac{V_i X_C}{R_1} \quad \text{con} \quad X_C = \frac{1}{6,28 f C}$$



$$V_u = \frac{V_i R_2}{X_C} \quad \text{con} \quad X_C = \frac{1}{6,28fC}$$

