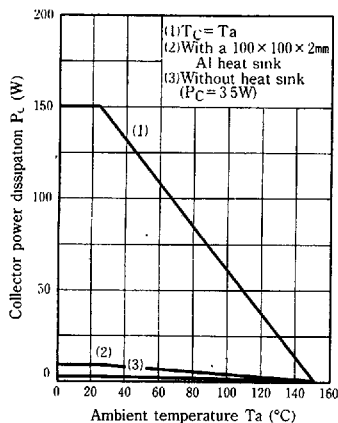
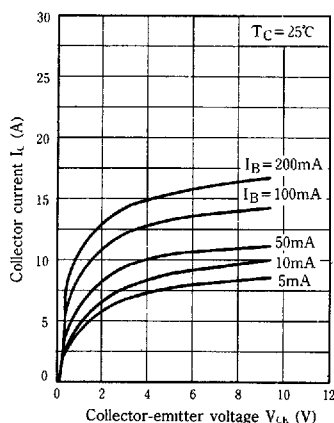
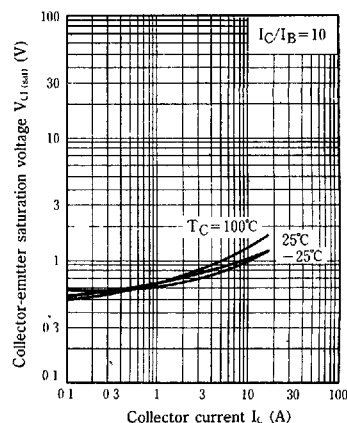
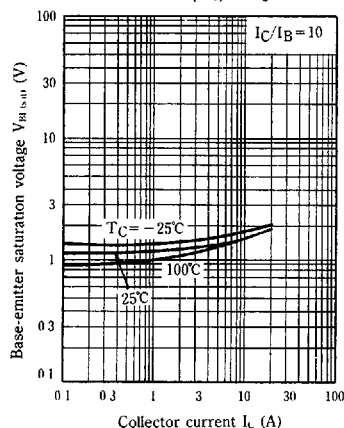
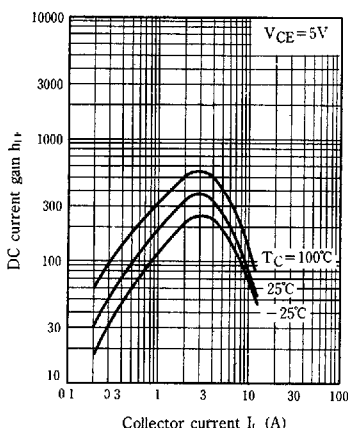
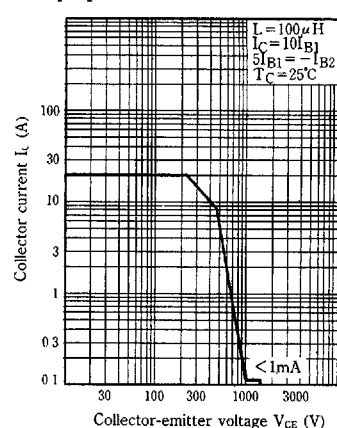
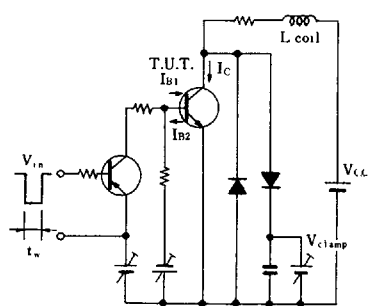


$P_C - T_a$  $I_C - V_{CE}$  $V_{CE(sat)} - I_C$  $V_{BE(sat)} - I_C$  $h_{FE} - I_C$ 

Safety operation area-reverse bias (ASO)



Measurement circuit of reverse bias ASO

 $R_{th(t)} - t$ 