

Fig 1 Switching Test circuit

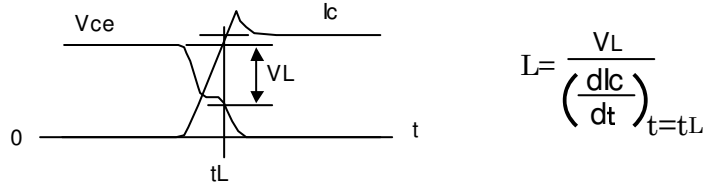


Fig 2 Difinition of stray inductance

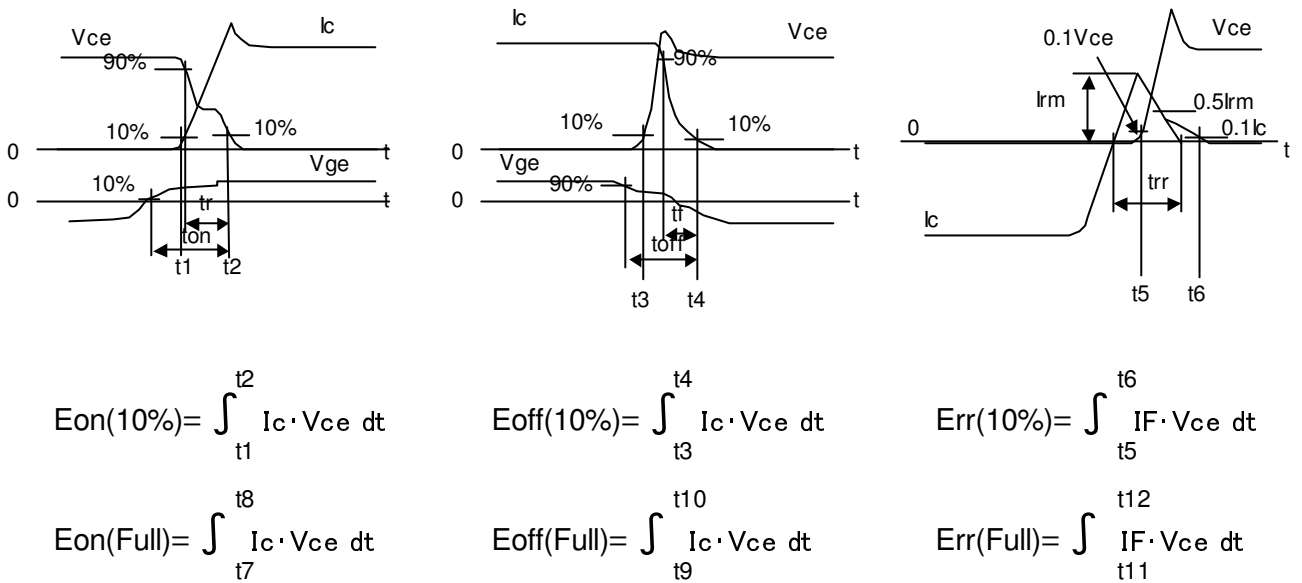
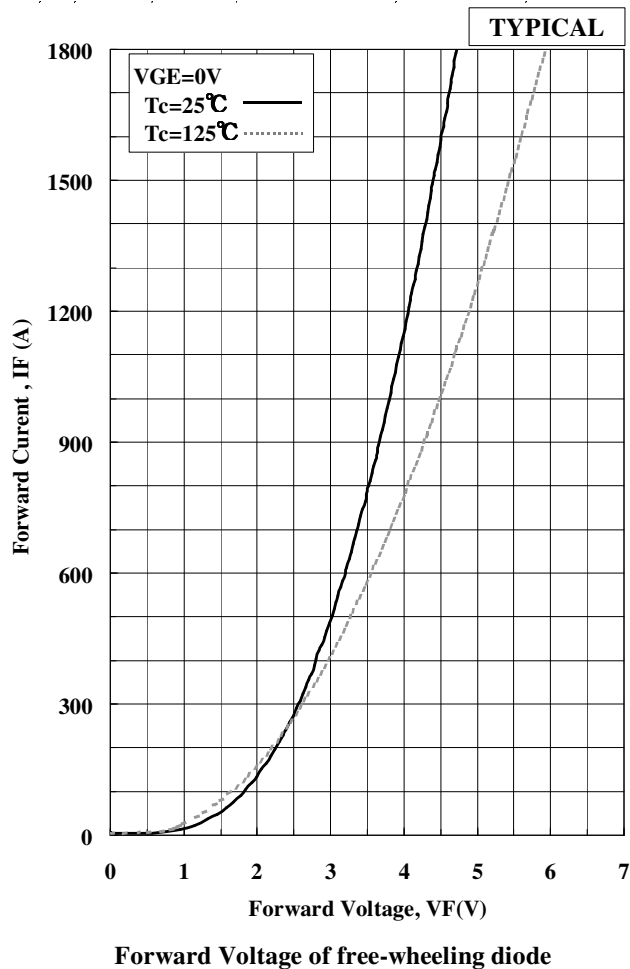
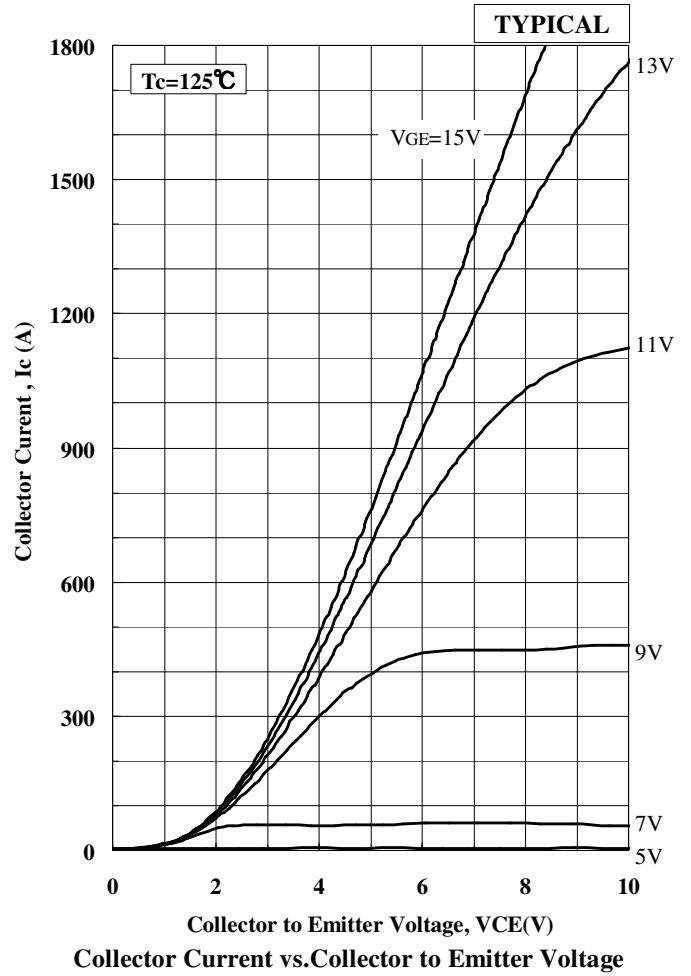
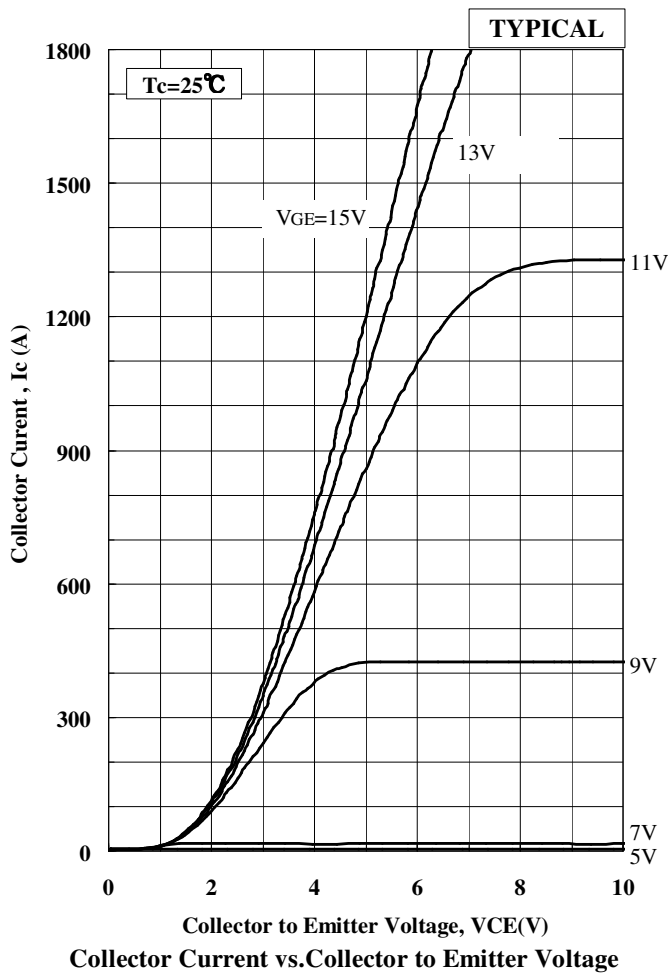
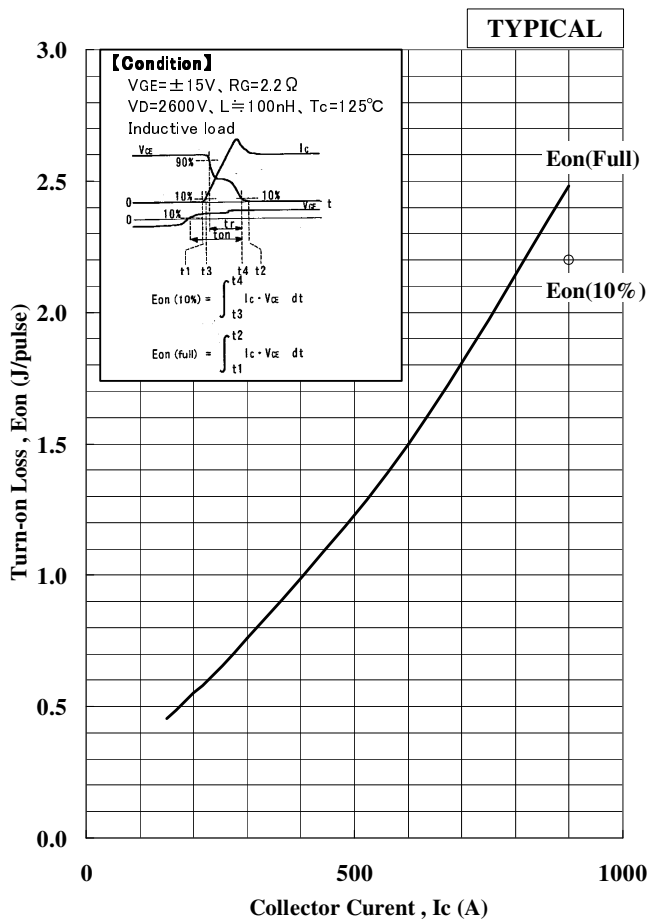
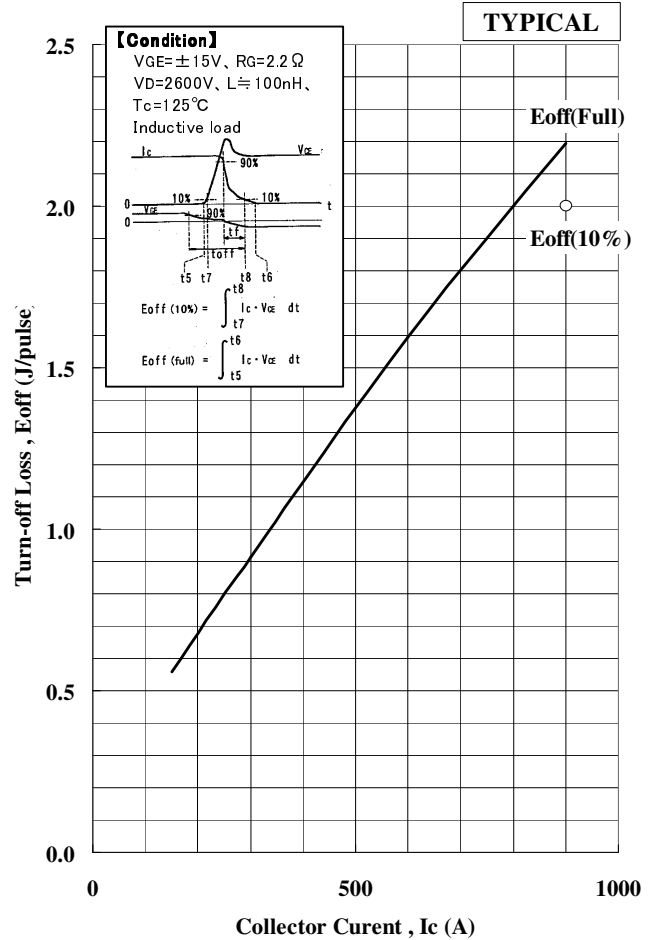


Fig. 3 Definition of switching loss

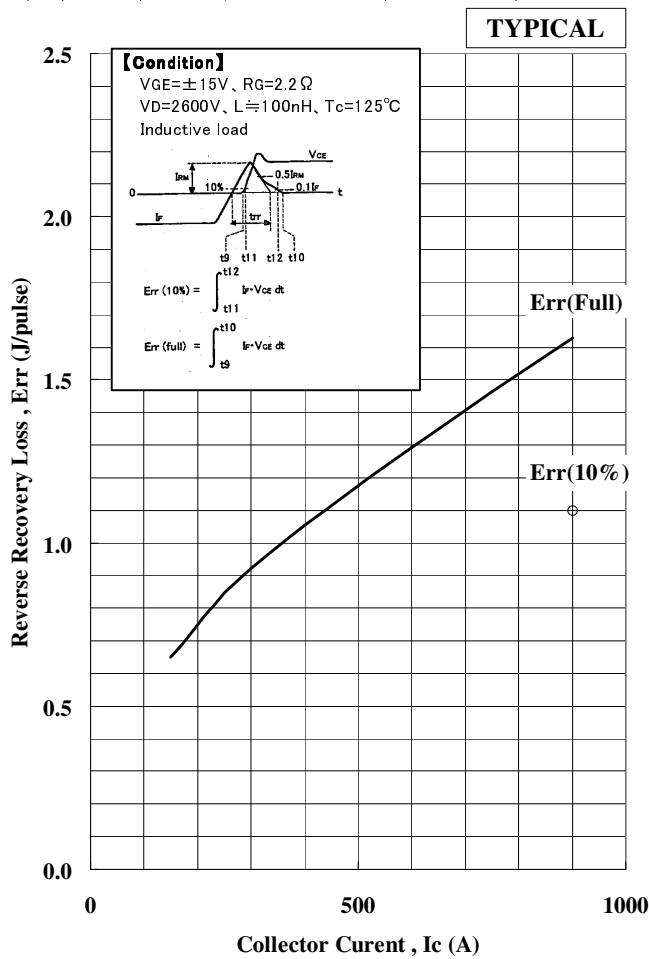




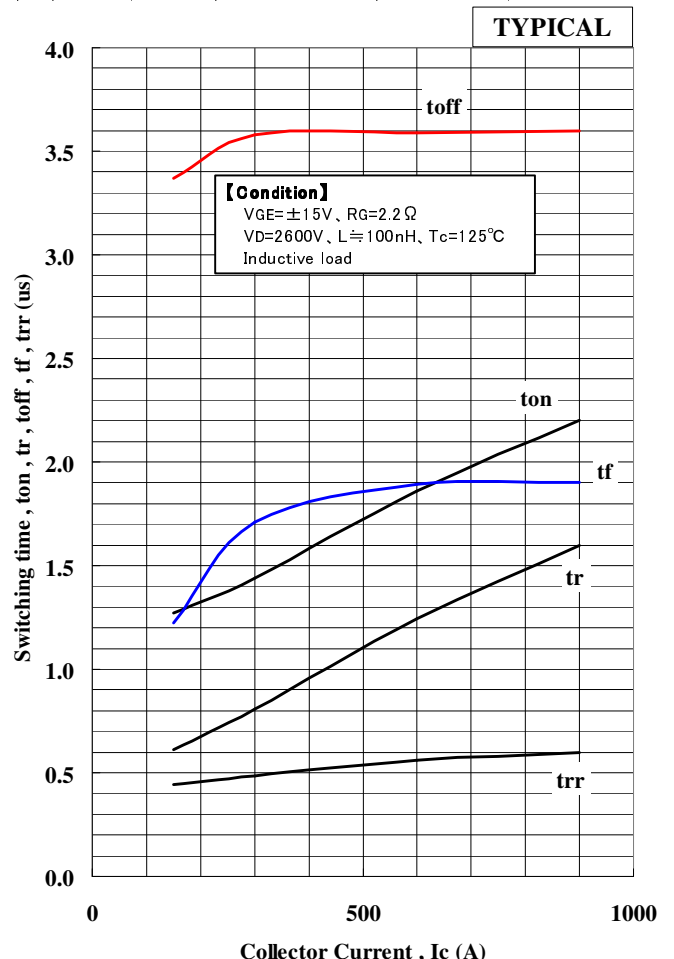
Turn-on Loss vs. Collector Current



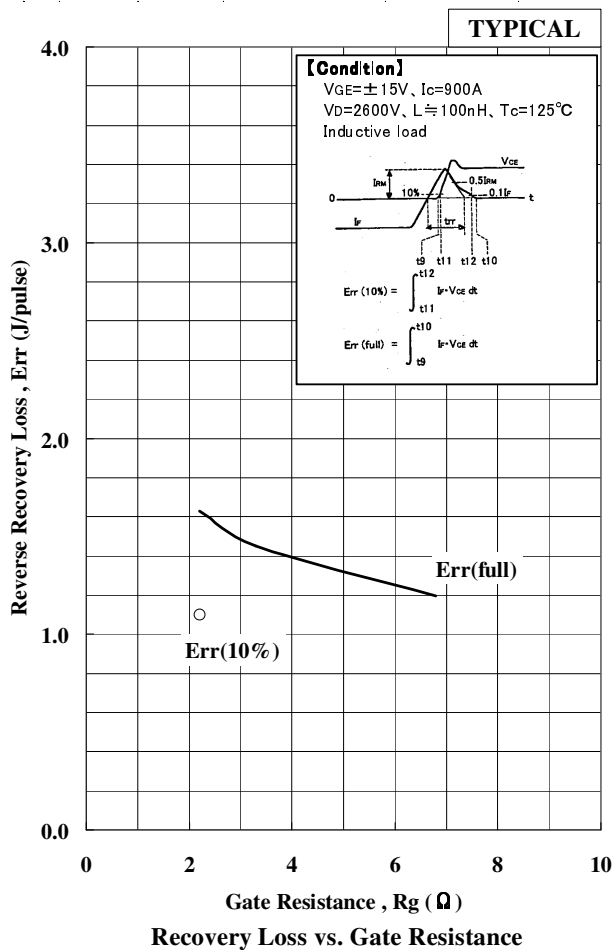
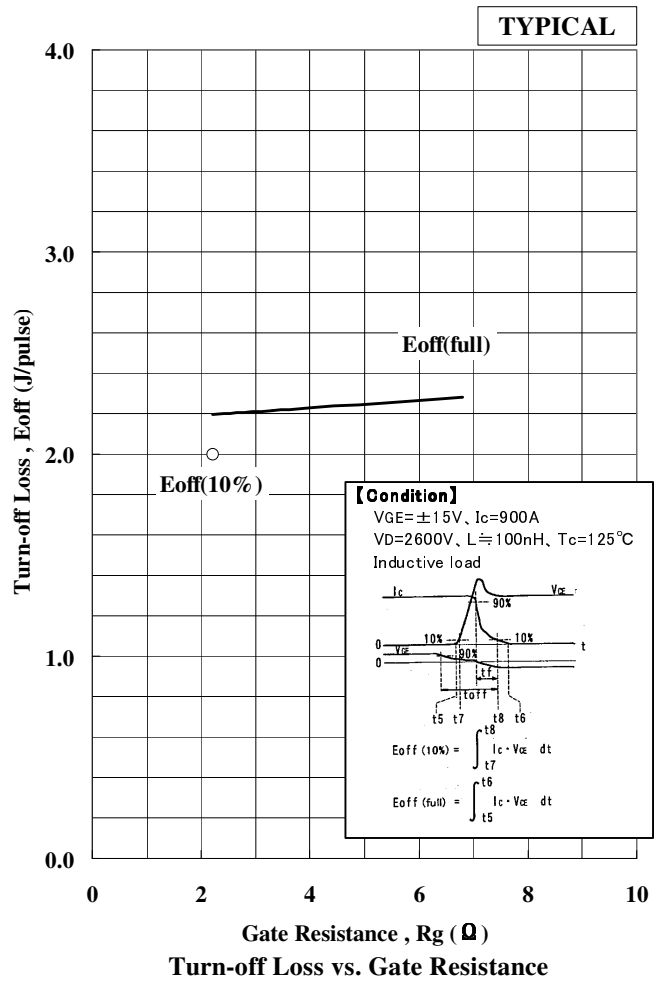
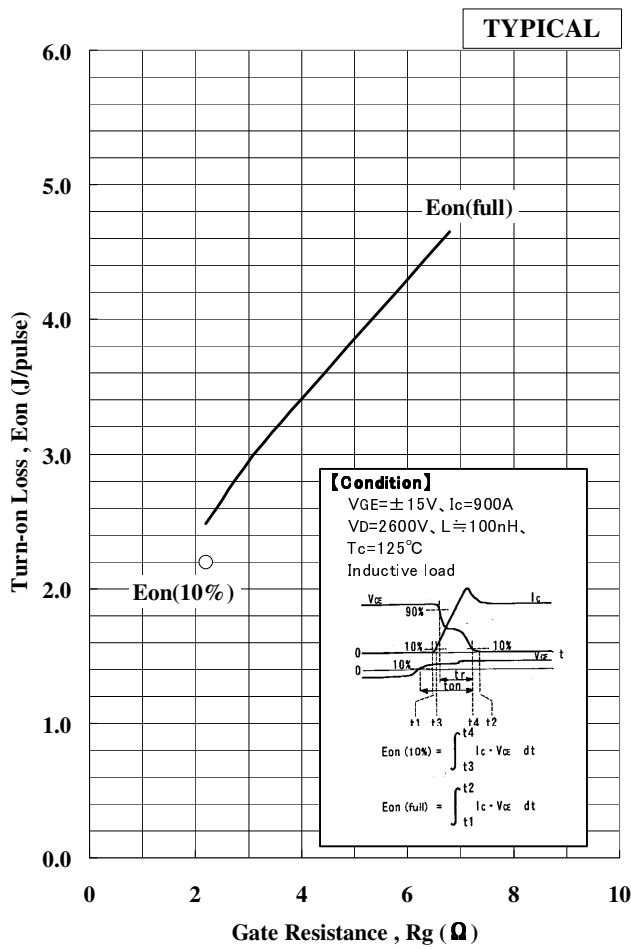
Turn-off Loss vs. Collector Current

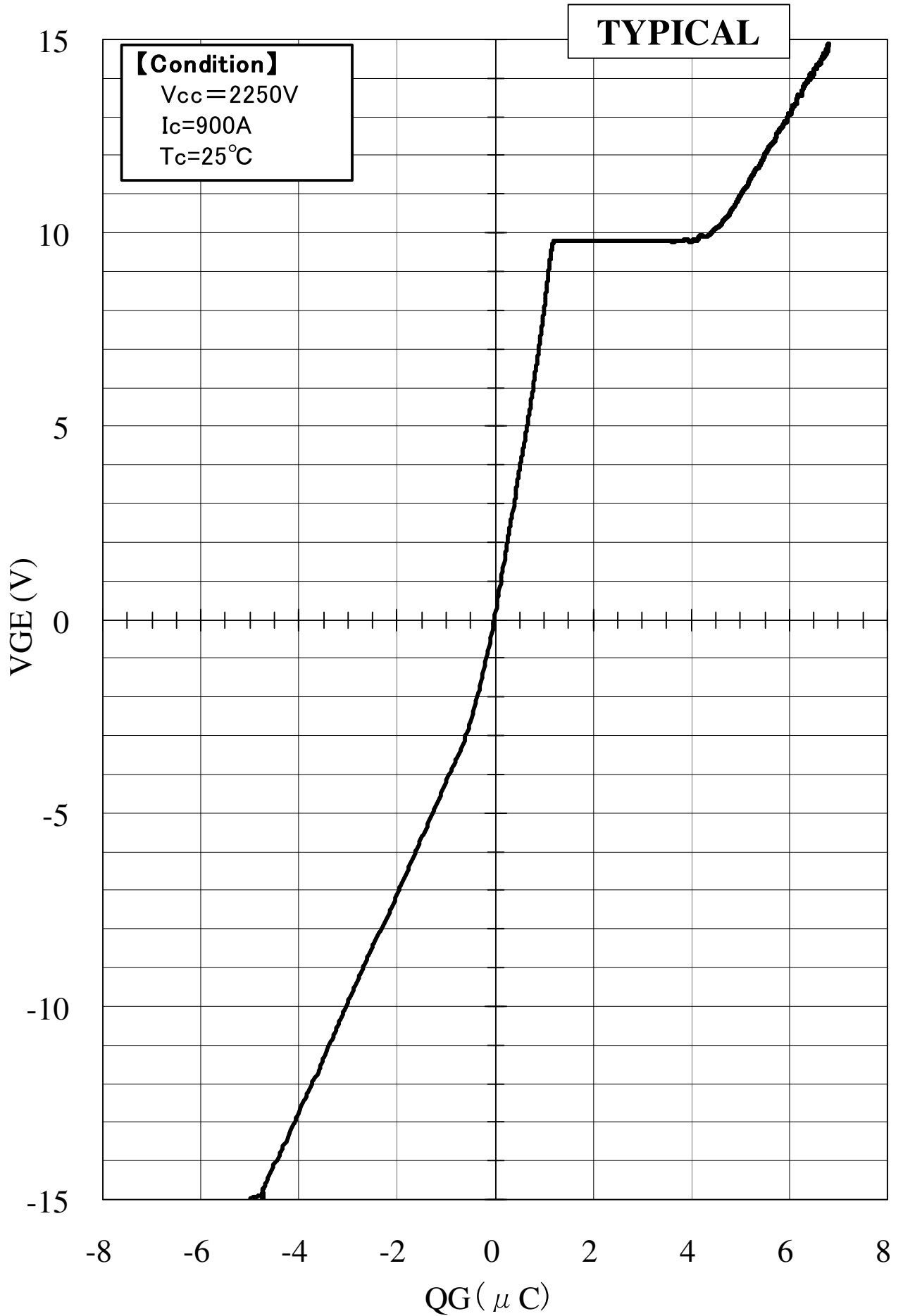


Recovery Loss vs. Collector Current



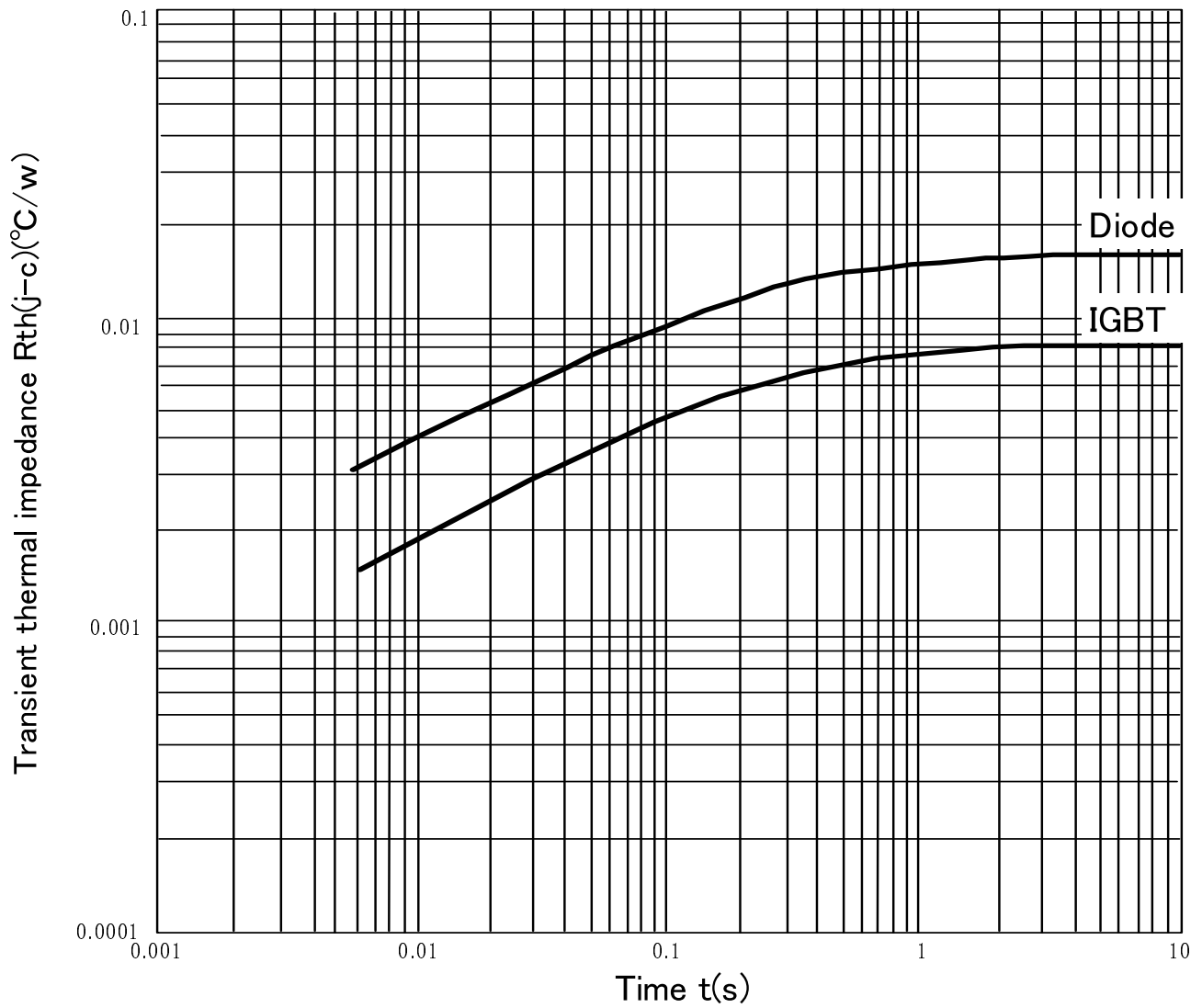
Switching time vs. Collector current





Qg-VGE curve

TYPICAL



Transient thermal impedance

HITACHI POWER SEMICONDUCTORS

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