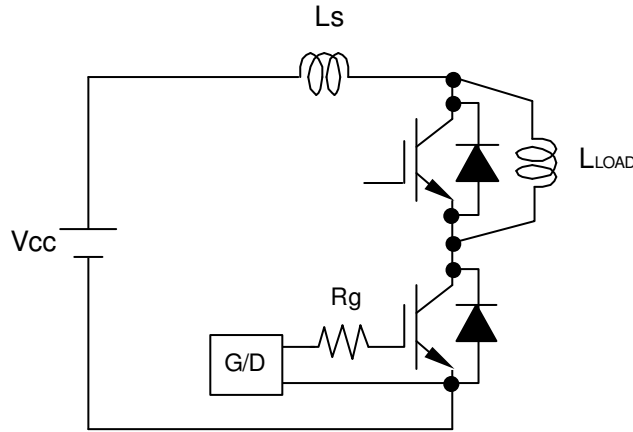




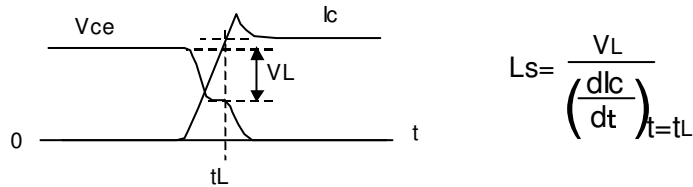
# MBM800E17E

Preliminary SPEC.

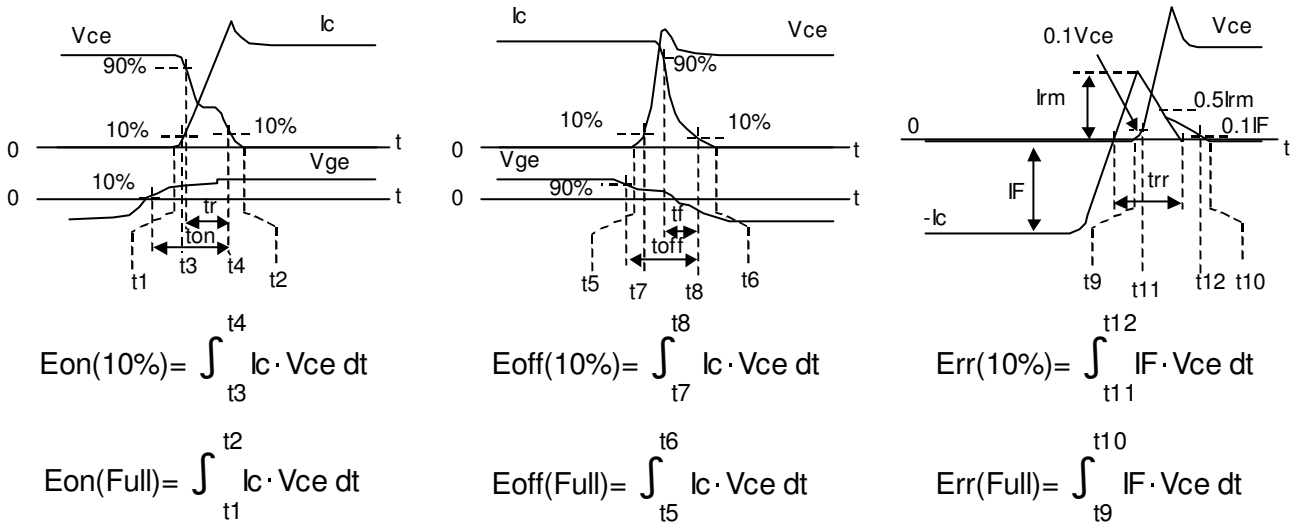
## DEFINITION OF TEST CIRCUIT



**Fig.1 Switching test circuit**



**Fig.2 Definition of Ls**



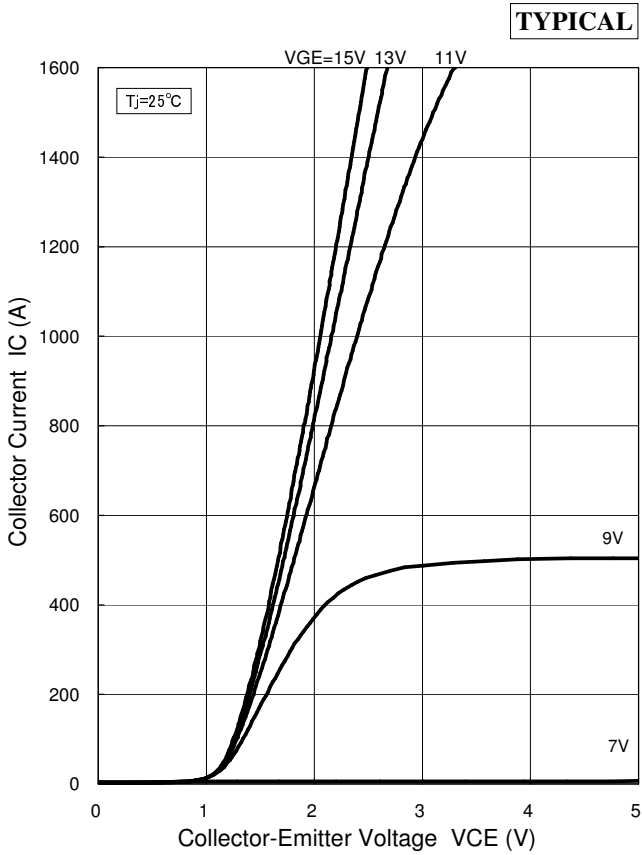
**Fig.3 Definition of switching loss**

# MBM800E17E

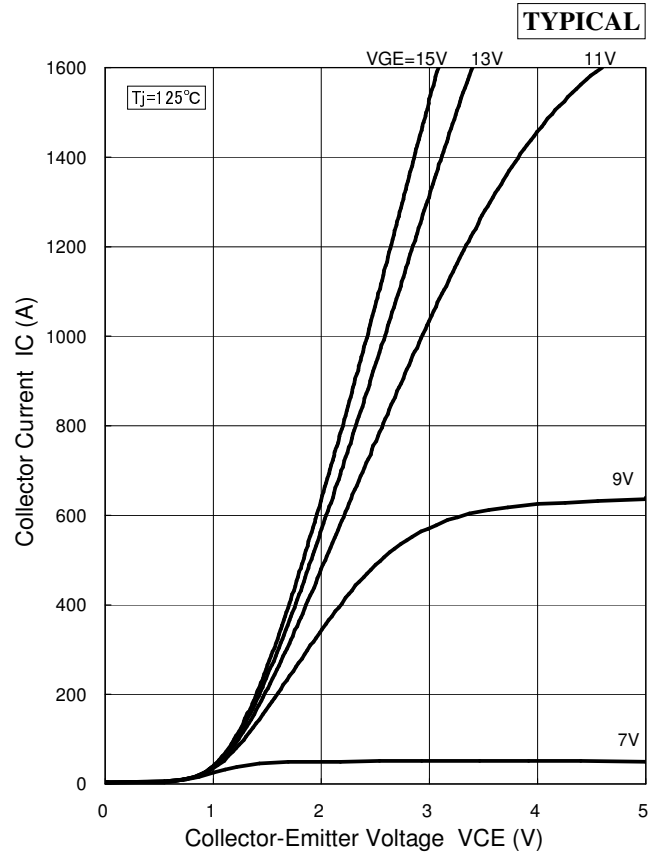
Preliminary SPEC.

## CHARACTERISTICS CURVE

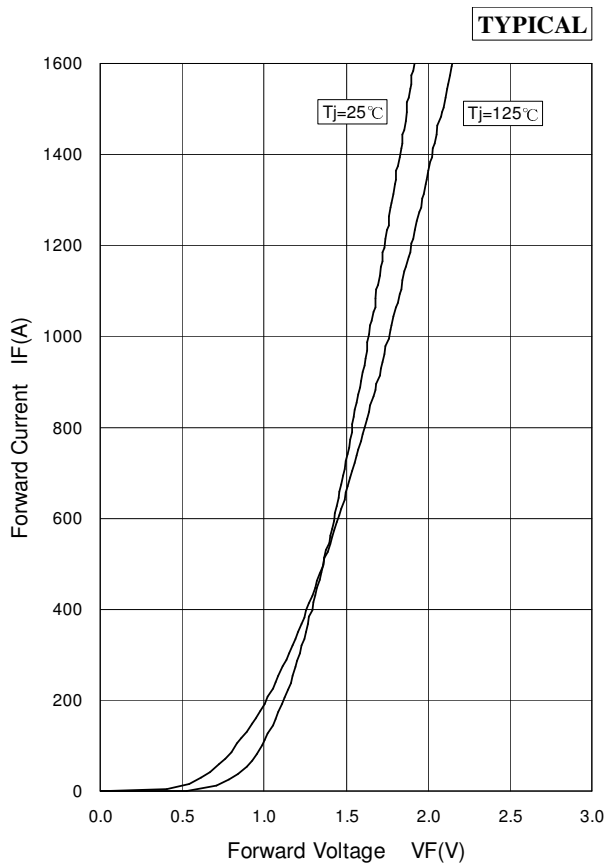
### STATIC CHARACTERISTICS



Collector Current vs. Collector to Emitter Voltage



Collector Current vs. Collector to Emitter Voltage

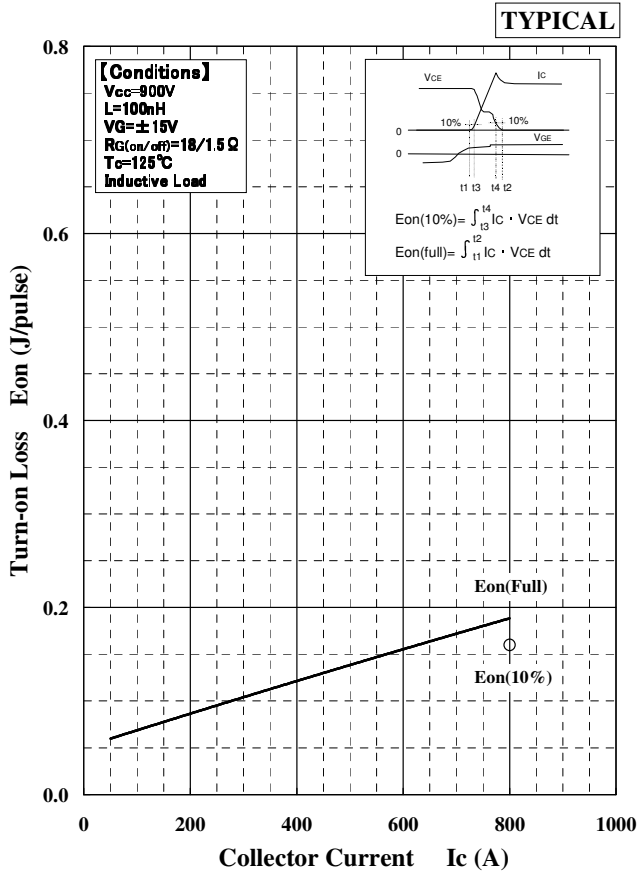


Forward Voltage of free-wheeling diode

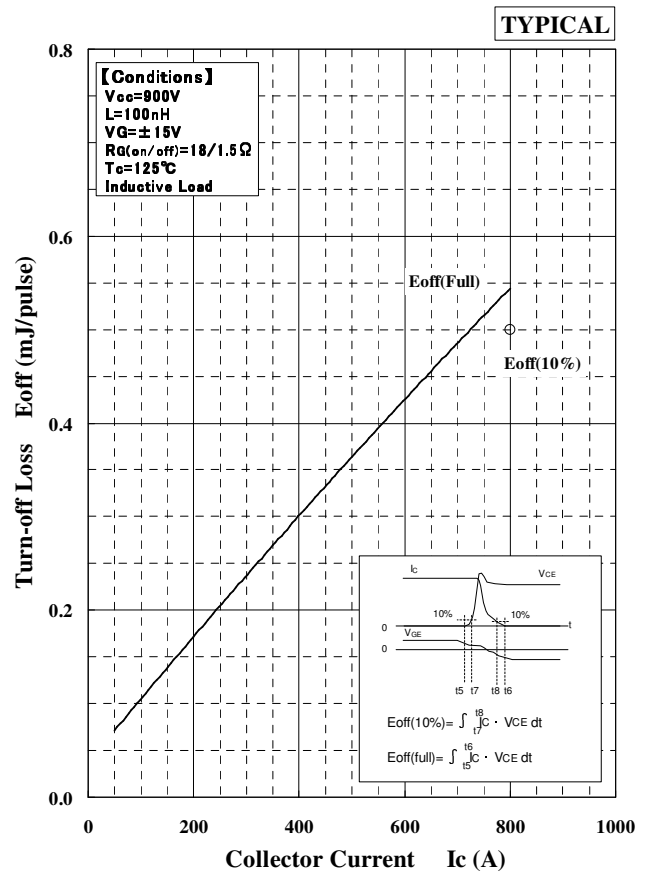
# MBM800E17E

Preliminary SPEC.

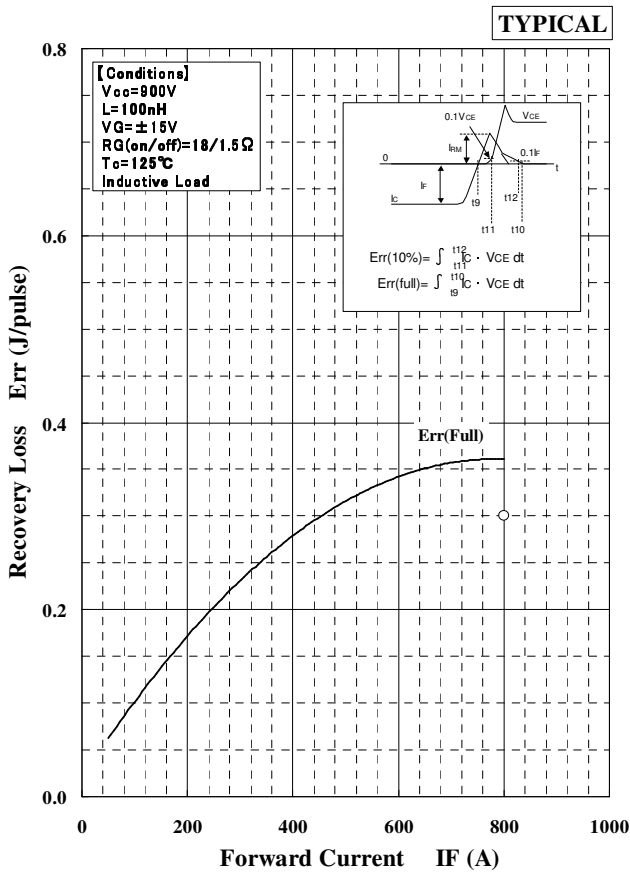
## DEPENDENCE OF CURRENT



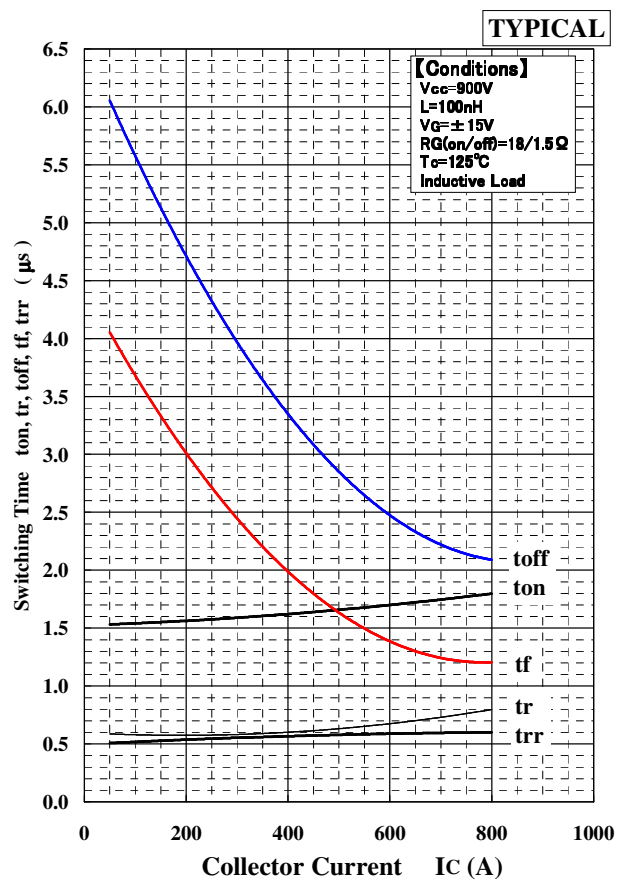
Turn-on Loss vs. Collector Current



Turn-off Loss vs. Collector Current



Recovery Loss vs. Collector Current

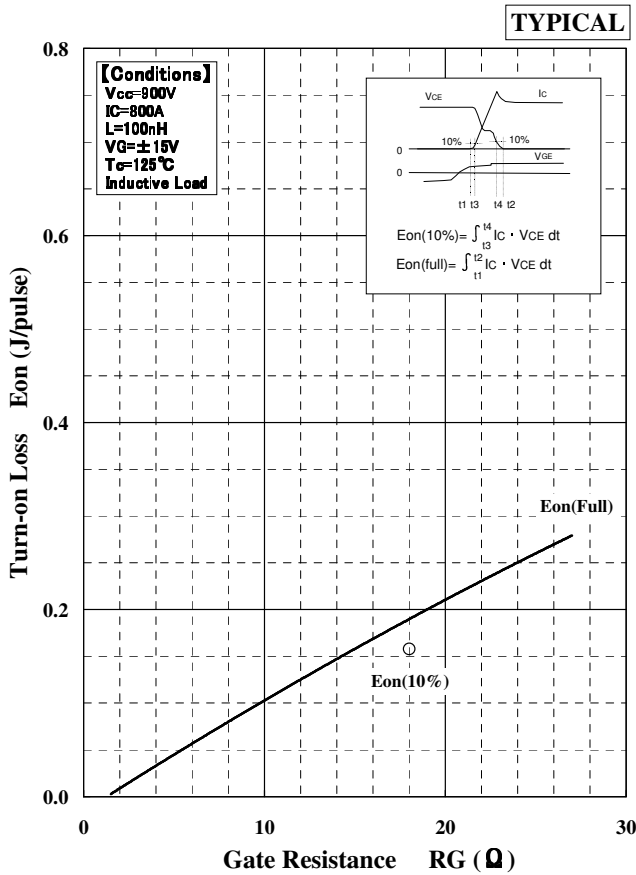


Switching Time vs. Collector Current

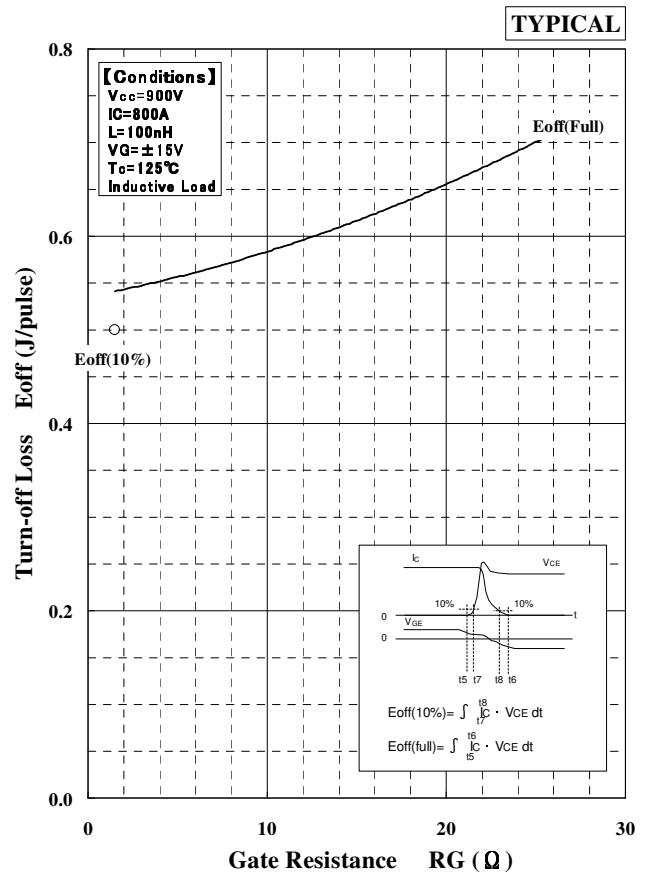
# MBM800E17E

Preliminary SPEC.

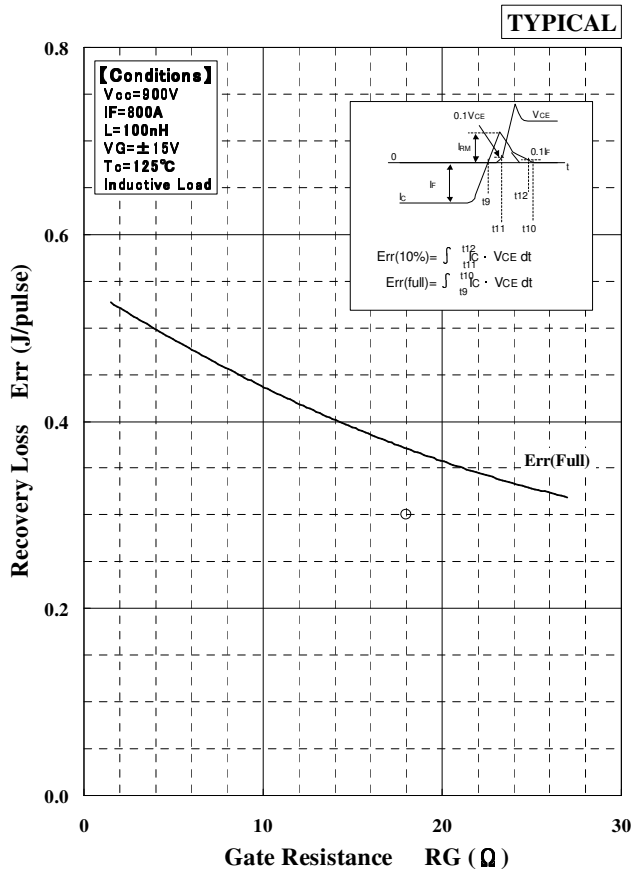
## DEPENDENCE OF RG



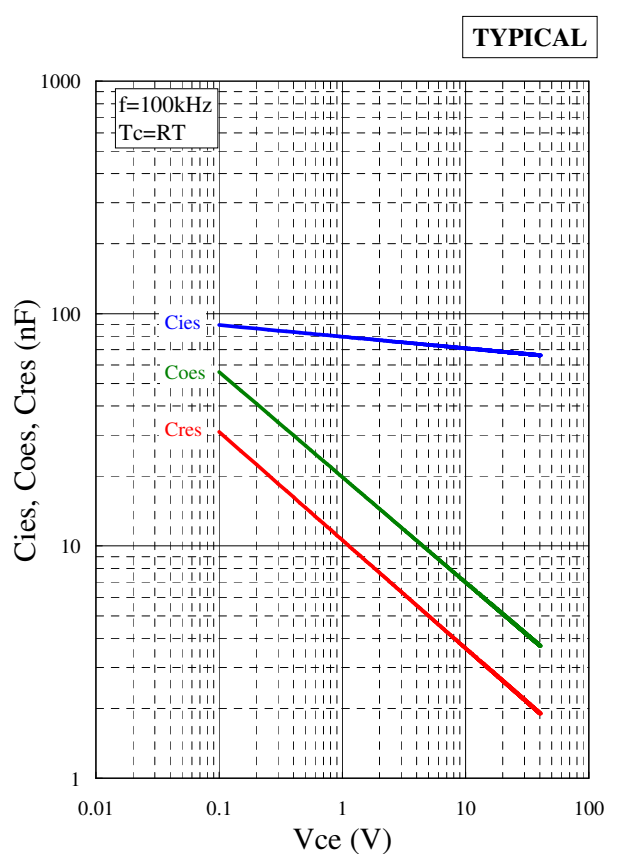
Turn-on Loss vs. Gate Resistance



Turn-off Loss vs. Gate Resistance



Recovery Loss vs. Gate Resistance



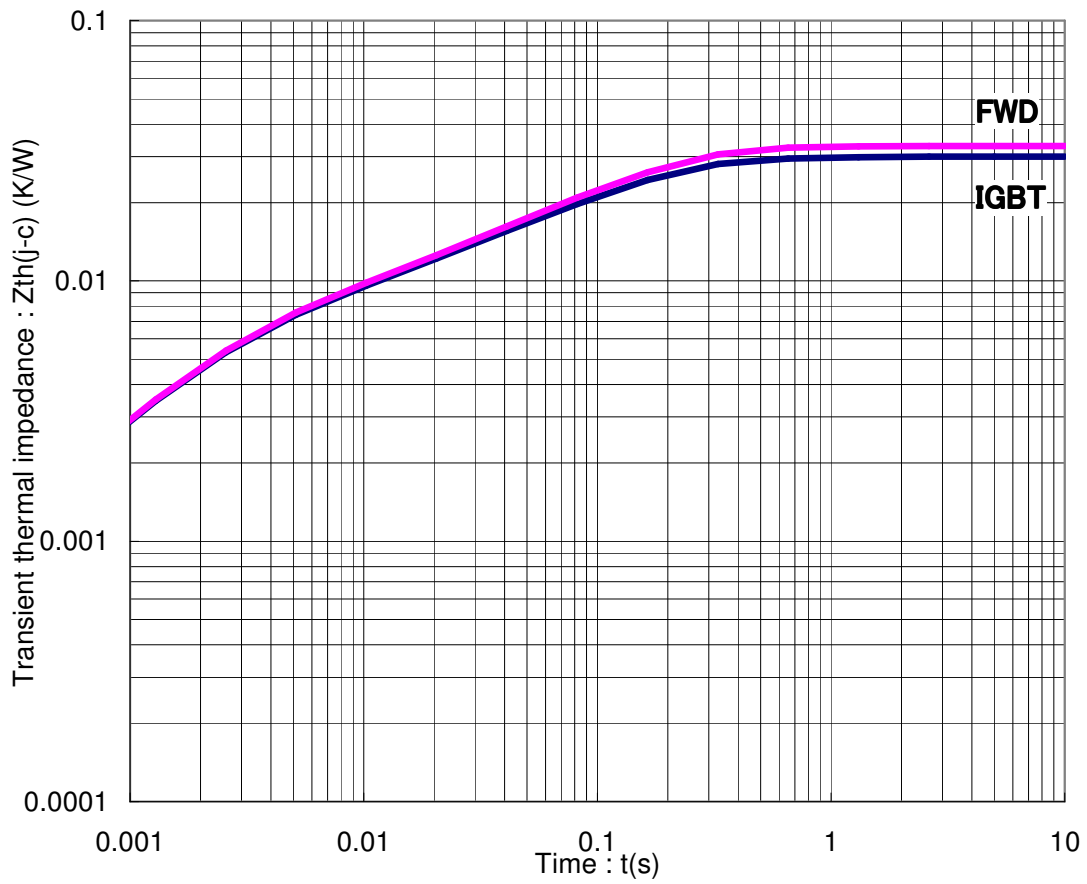
Cies, Coes, Cres vs. Vce

# MBM800E17E

Preliminary SPEC.

## Thermal Impedance

### TRANSIENT THERMAL IMPEDANCE



### Negative environmental impact material

Please note the following negative environmental impact materials are contained in the product in order to keep product characteristic and reliability level.

Material	Contained part
Lead (Pb) and its compounds	Solder
Arsenic and its compounds	Si chip

# HITACHI POWER SEMICONDUCTORS

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