

MITSUBISHI ELECTRIC CORPORATION

APPLICATION NOTE	Prepared by	H.Hanada	Rev	B	H.Hanada
	Approved by	M.Tabata 1-Apr.-'03			T. <i>Funari</i> 29-May-'03

CMH5342 b.doc

Subject Performance Curves of CM400DY-24A

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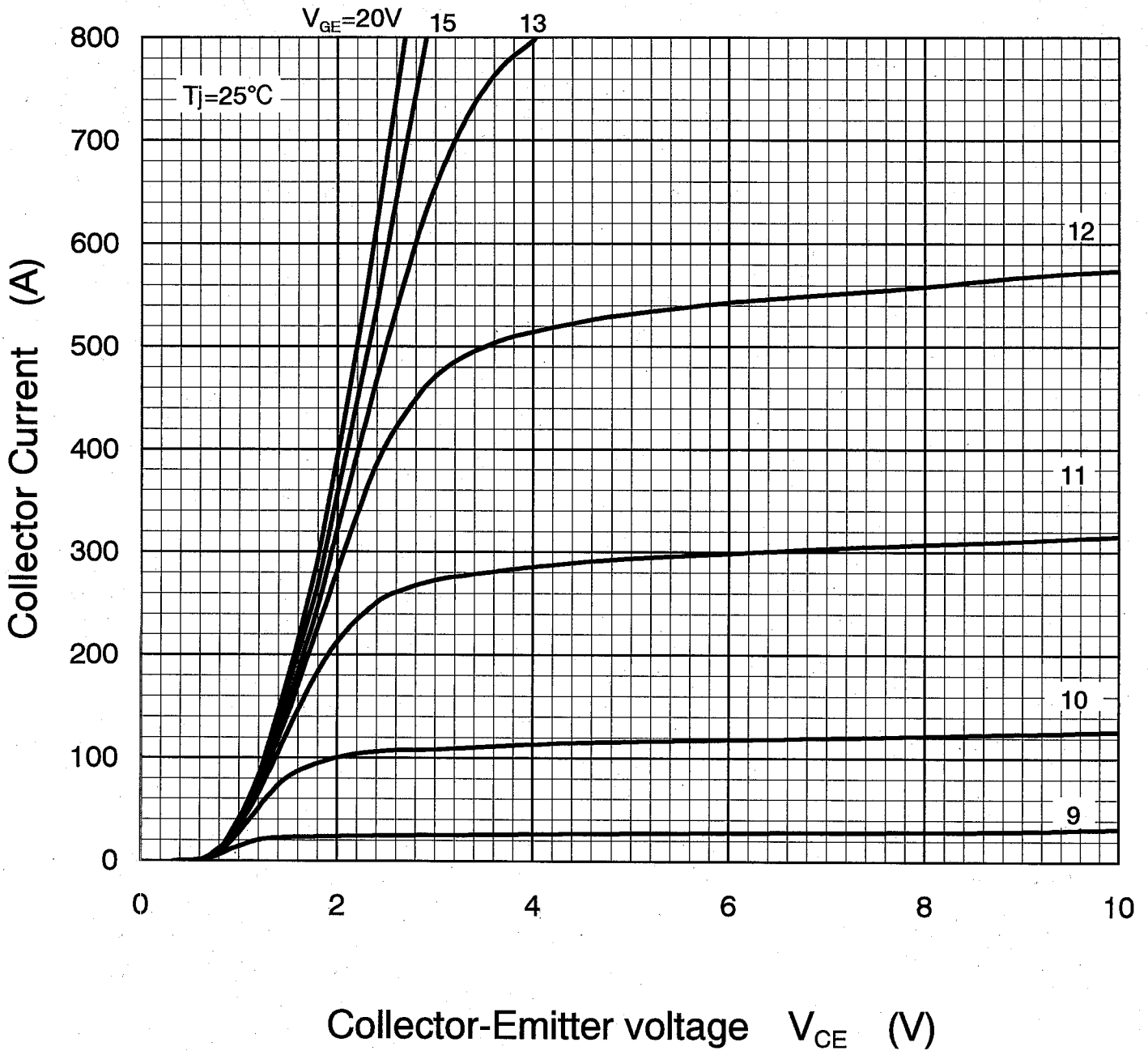
- Output Characteristics(typical)
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- Collector-Emitter Saturation Voltage Characteristics(typical)
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Don't measure these static characteristics yourself by curve tracer.
 Usually, curve tracer has too much wiring inductance and device will be damaged by over voltage from oscillation.

IGBT Module	CMH-5342-B	APPLICATION NOTE
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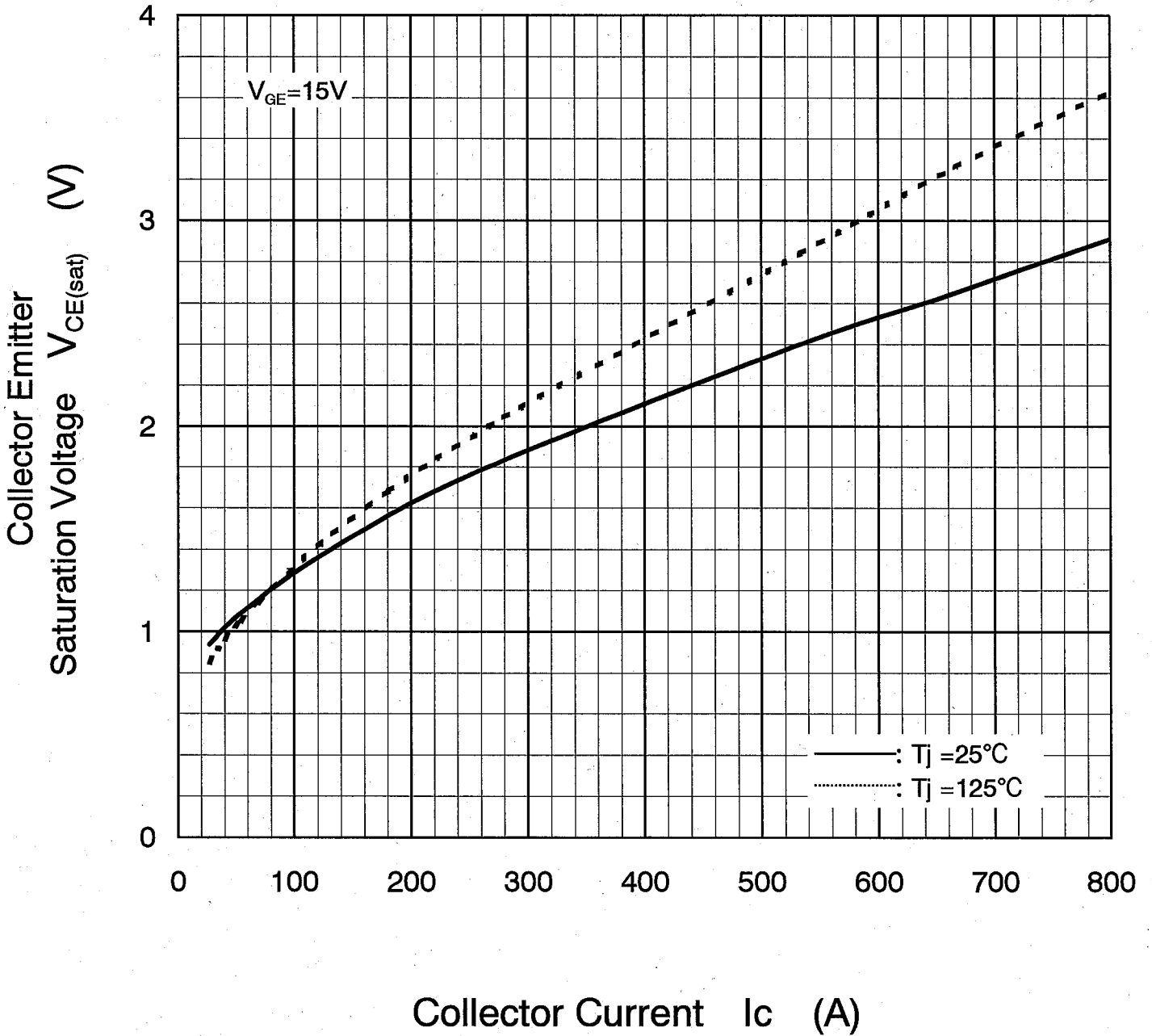
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Output Characteristics (Typical) CM400DY-24A



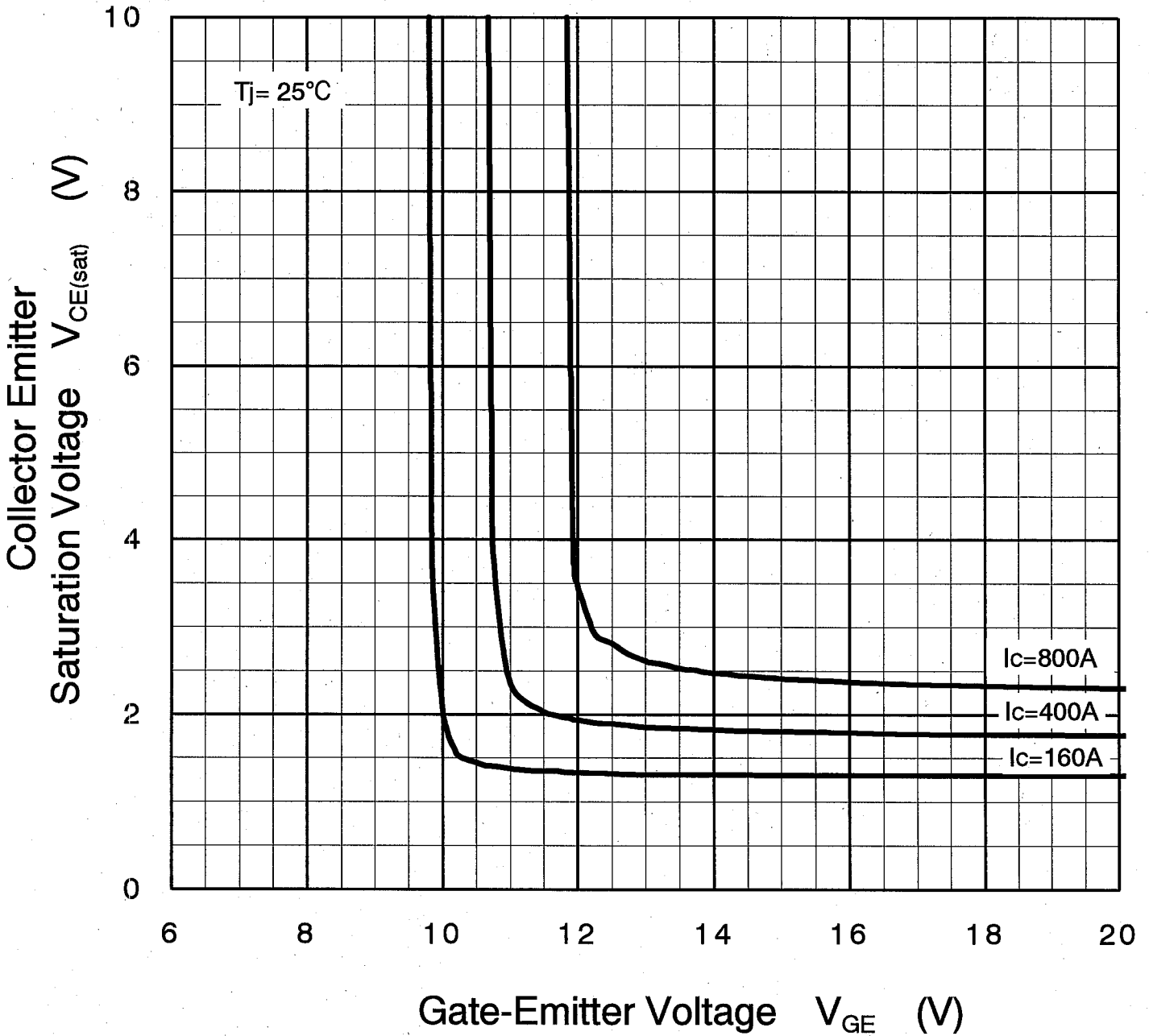
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Collector-Emitter Saturation Voltage Characteristics (Typical) CM400DY-24A



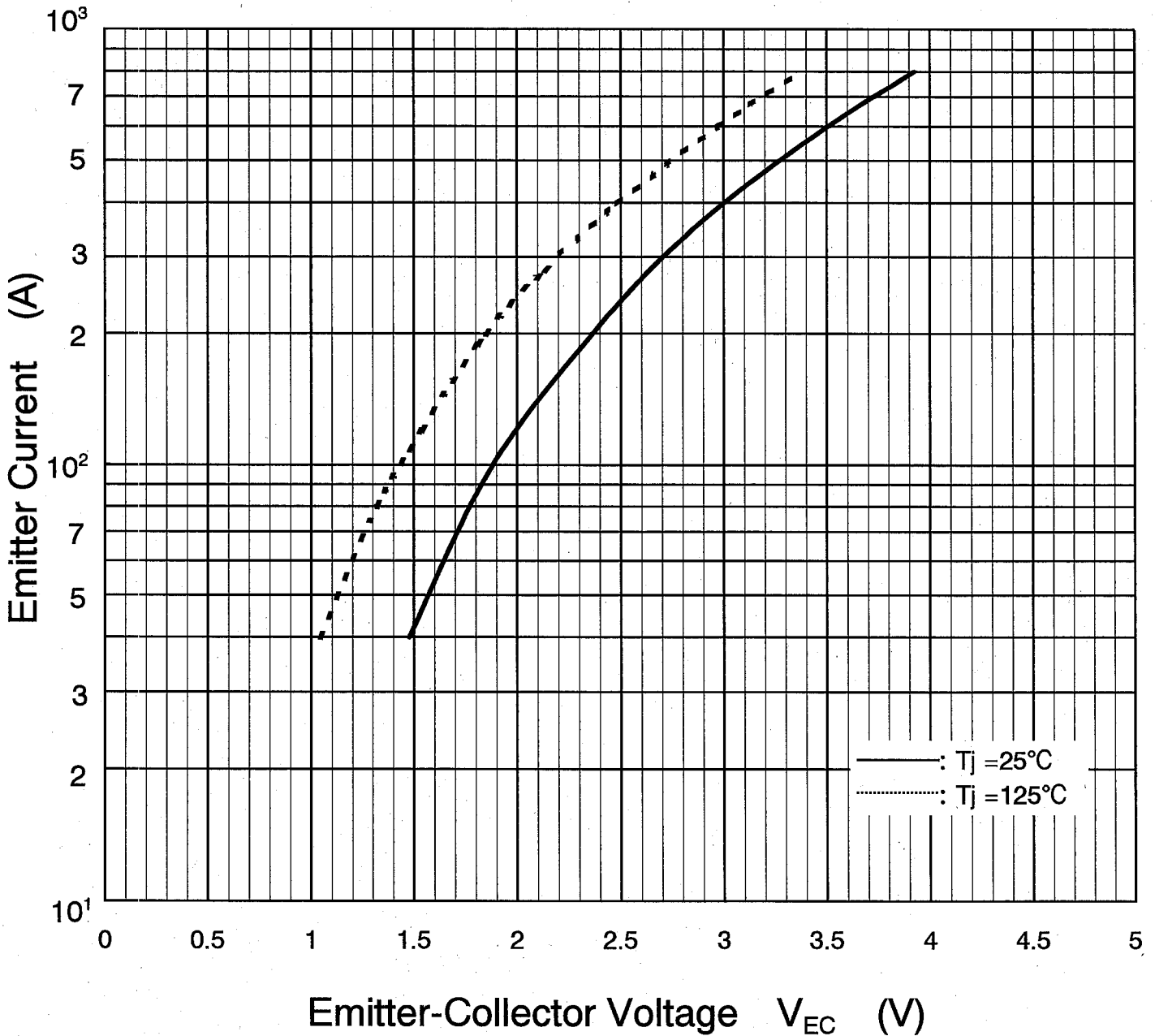
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Collector-Emitter Saturation Voltage Characteristics (Typical) CM400DY-24A



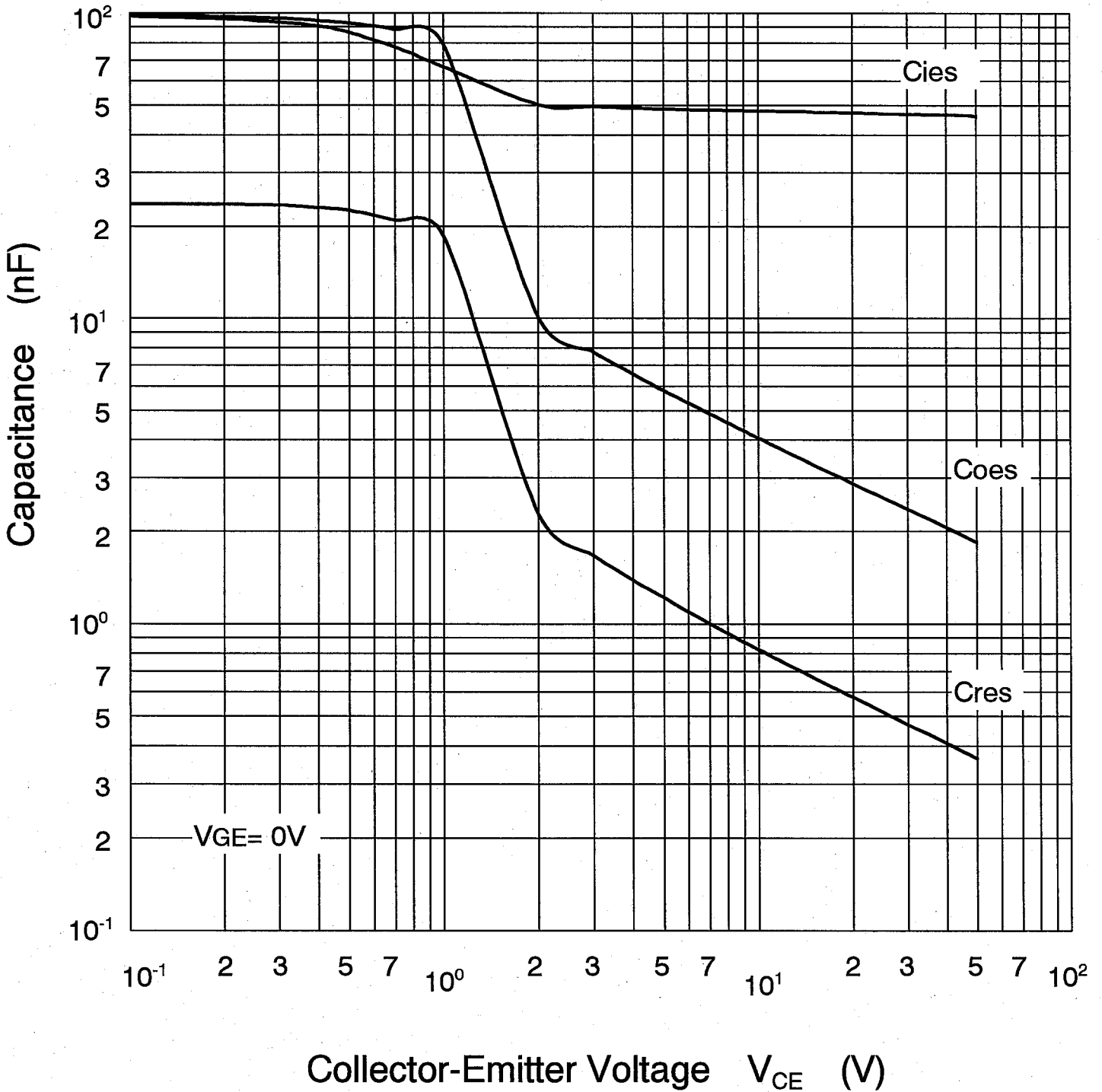
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Free-Wheel Diode Forward Characteristics (typical) CM400DY-24A



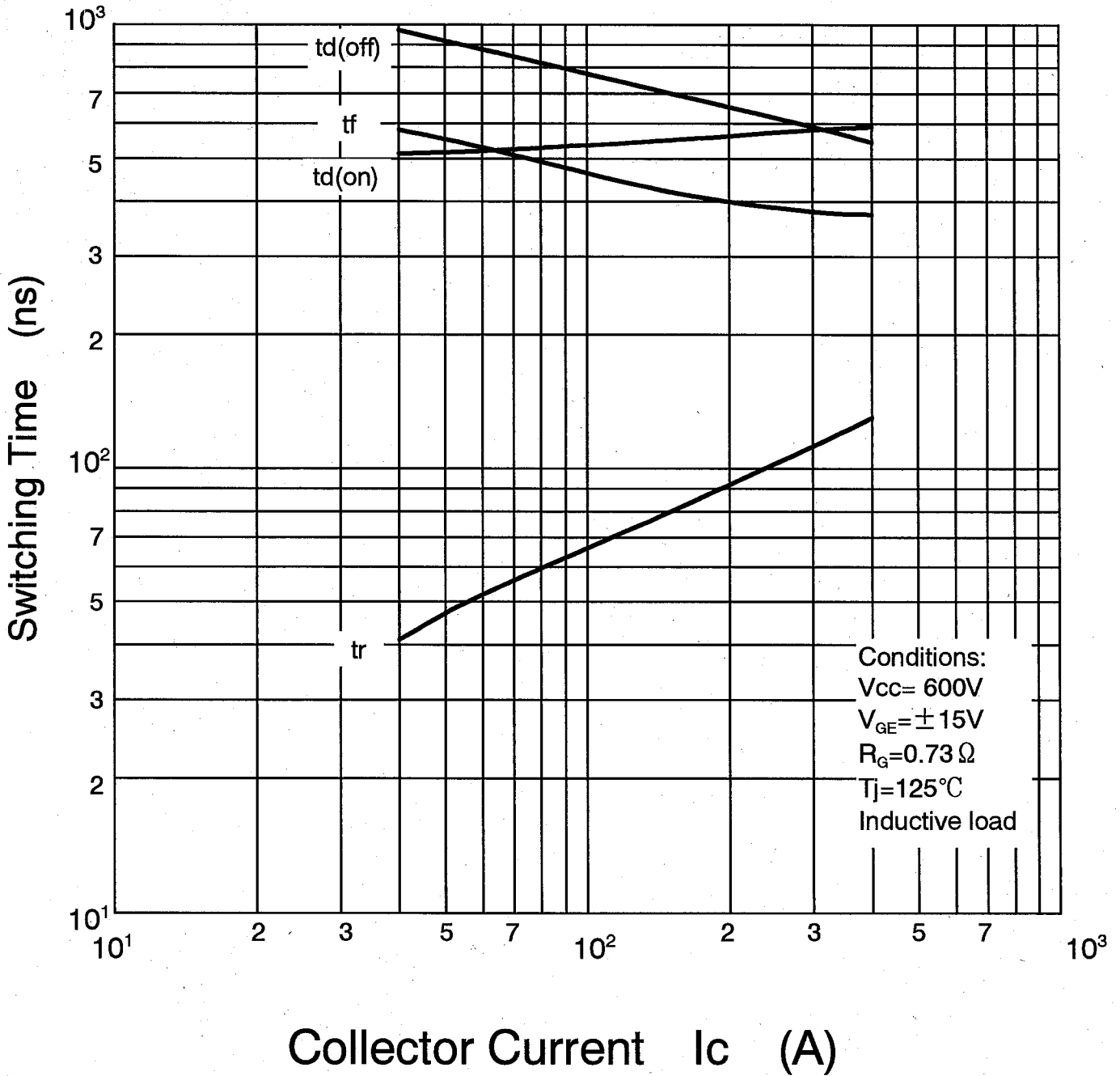
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Capacitance- V_{CE} Characteristics
(typical)
CM400DY-24A



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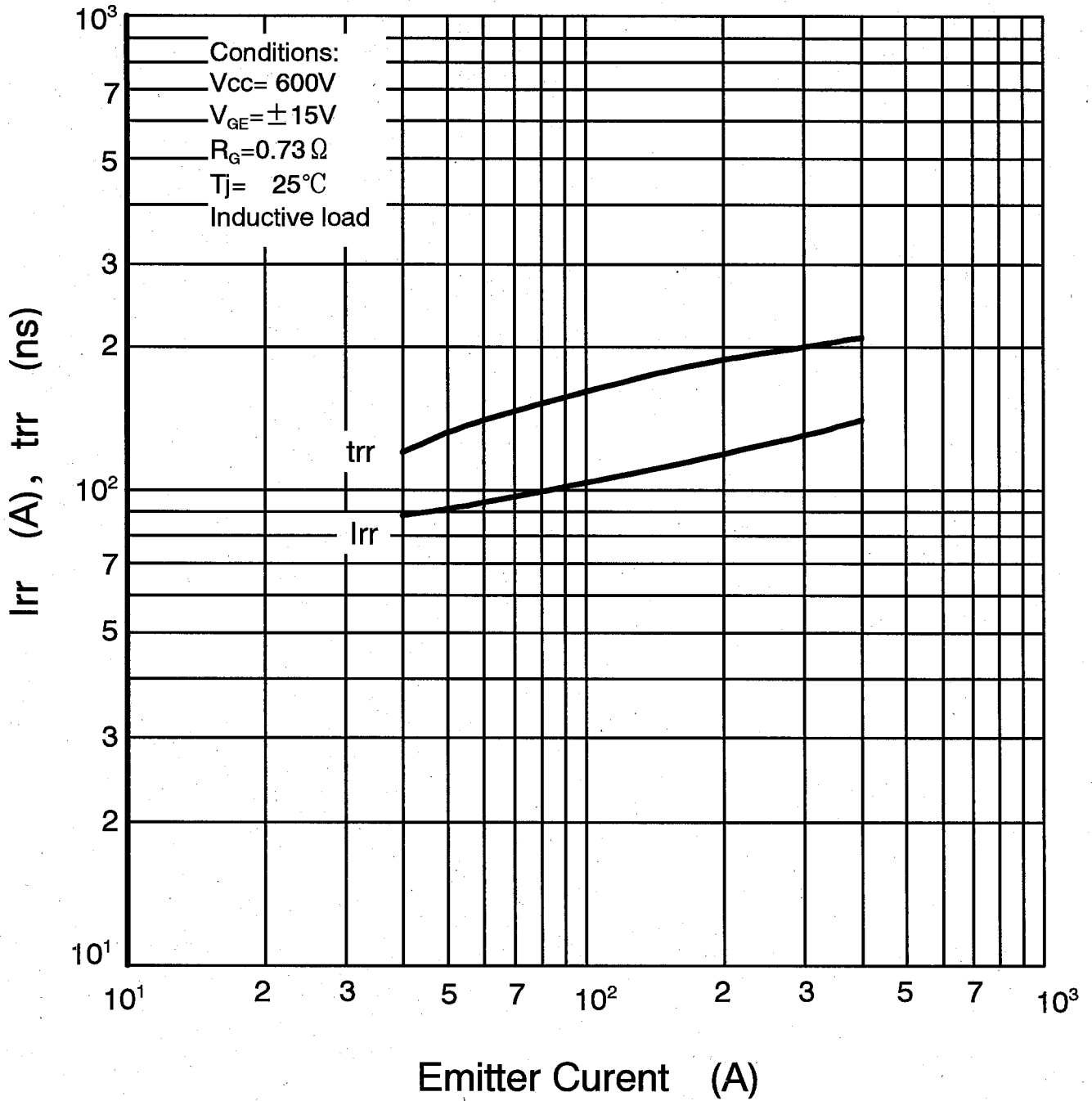
Half-Bridge Switching Characteristics (typical) CM400DY-24A



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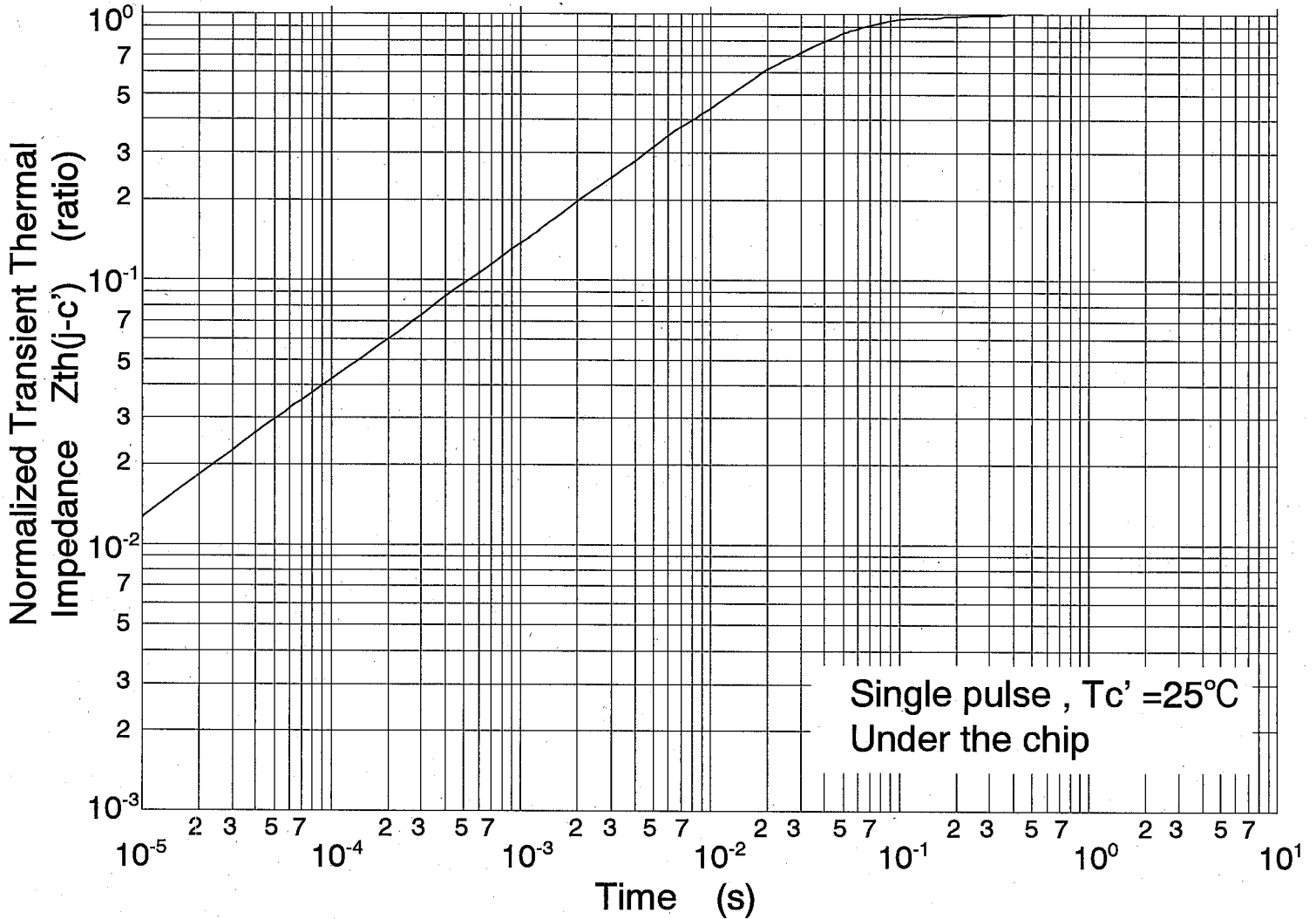
Reverse Recovery Characteristics of Free-Wheel Diode (typical) CM400DY-24A



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Transient Thermal Impedance Characteristics (IGBT part & FWD part) CM400DY-24A



IGBT part :

Per unit base= $R_{th(j-c)} = 0.046^{\circ}\text{C/W}$

FWD part :

Per unit base= $R_{th(j-c)} = 0.085^{\circ}\text{C/W}$

B

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Gate Charge Characteristics
(typical)
CM400DY-24A

