

MITSUBISHI ELECTRIC CORPORATION

APPLICATION NOTE	Prepared by <i>S. Uchida</i>	Rev	
	Approved by <i>M. Yamamoto Oct. 29. 2002</i>		

CMH5104.doc

Subject Performance Curves of CM150DY-24NF

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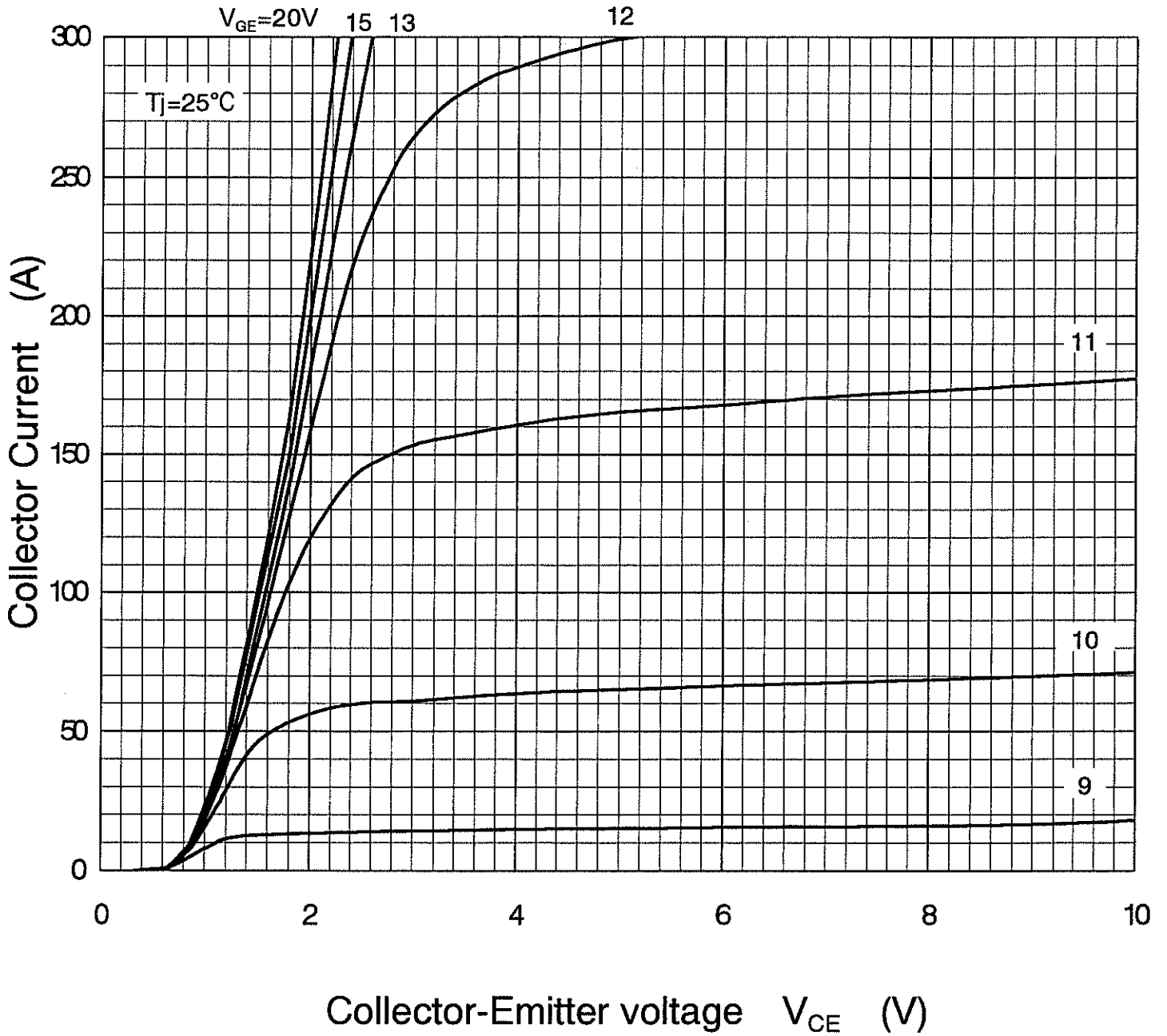
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- Collector-Emitter Saturation Voltage Characteristics(typical)
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Don't measure these static characteristics yourself by curve tracer.
 Usually, curve tracer has too much wiring inductance and device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

IGBT Module	CMH-5104-	APPLICATION NOTE
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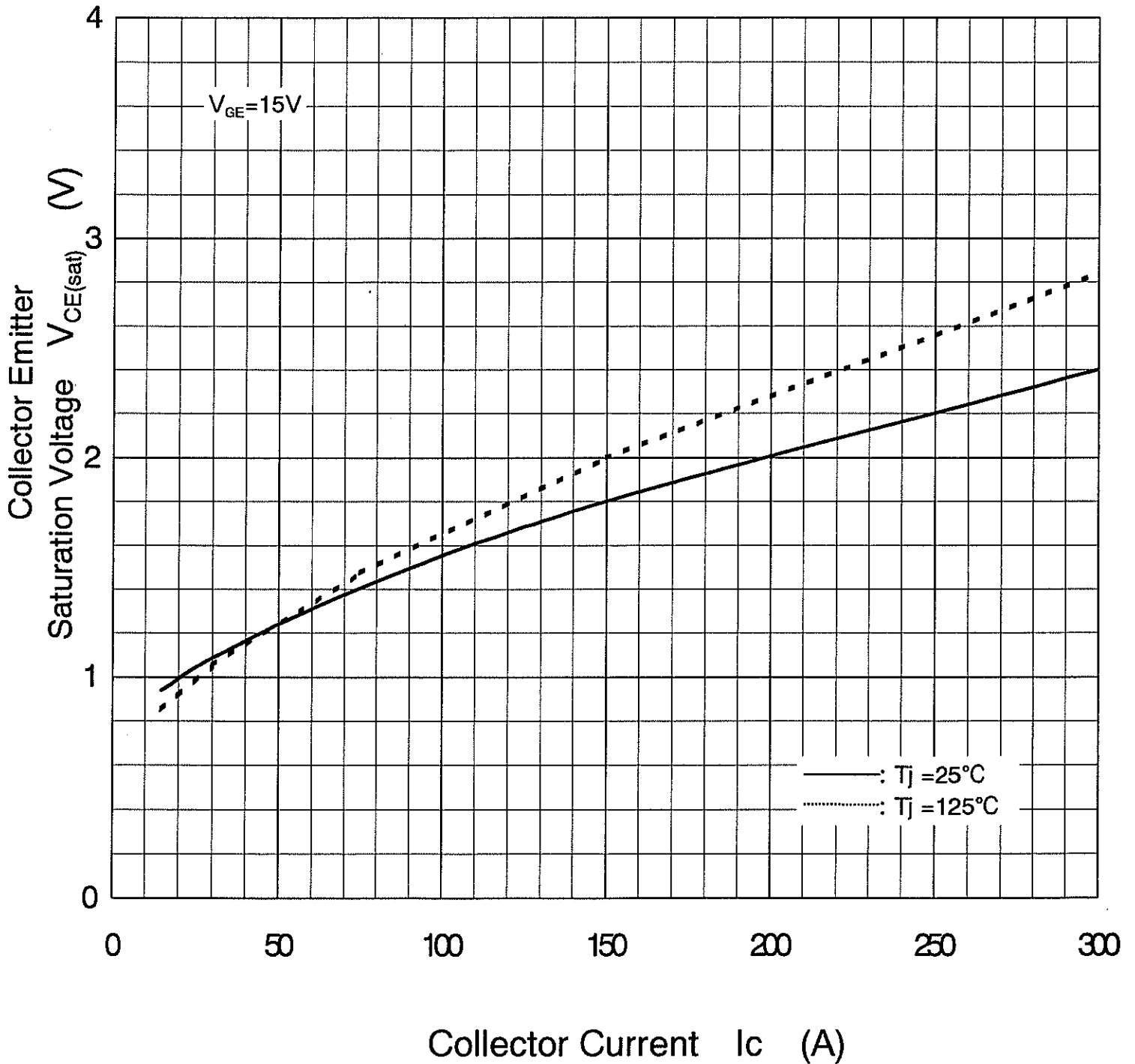
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Output Characteristics (Typical) CM150DY-24NF



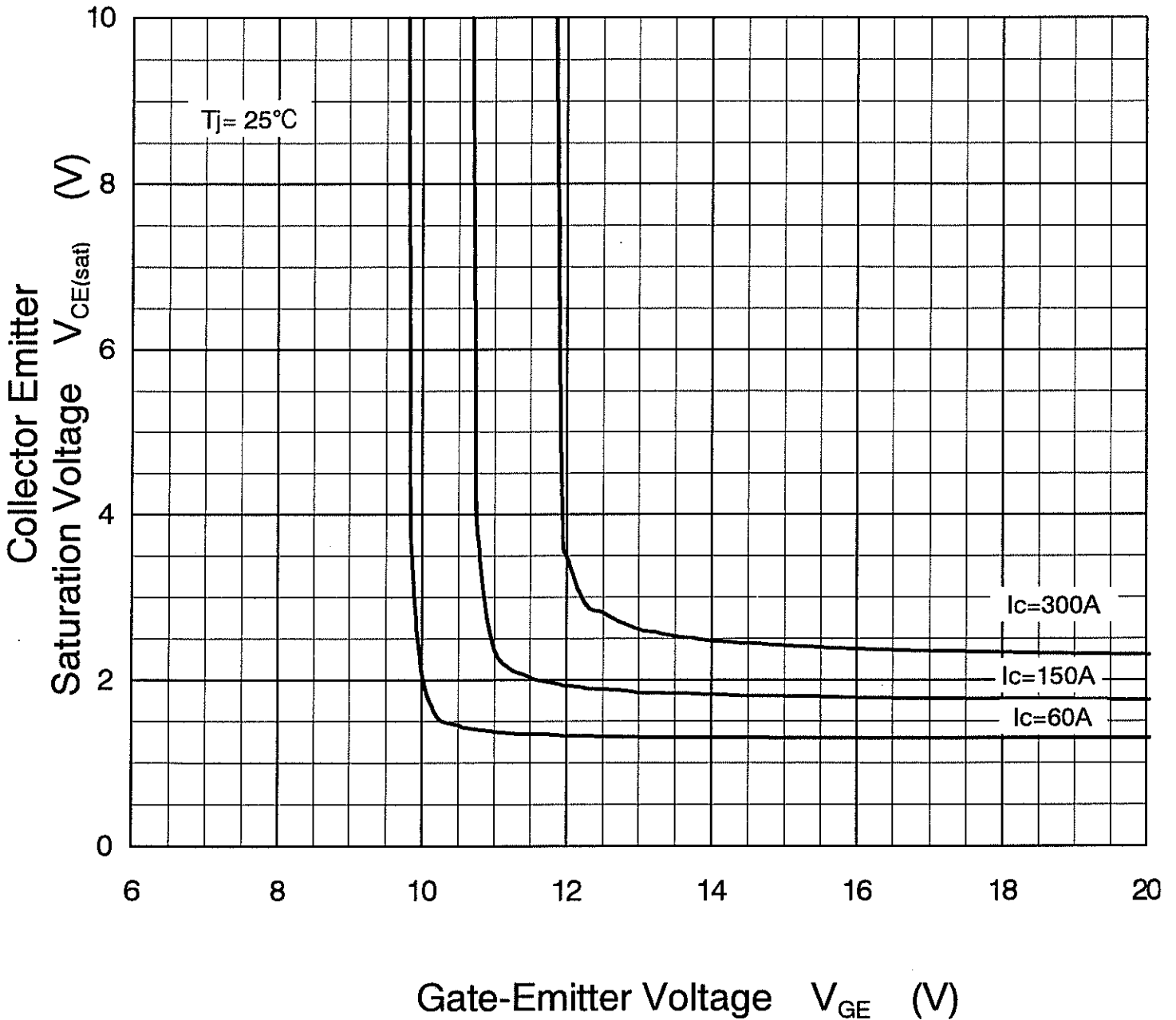
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Collector-Emitter Saturation Voltage Characteristics (Typical) CM150DY-24NF



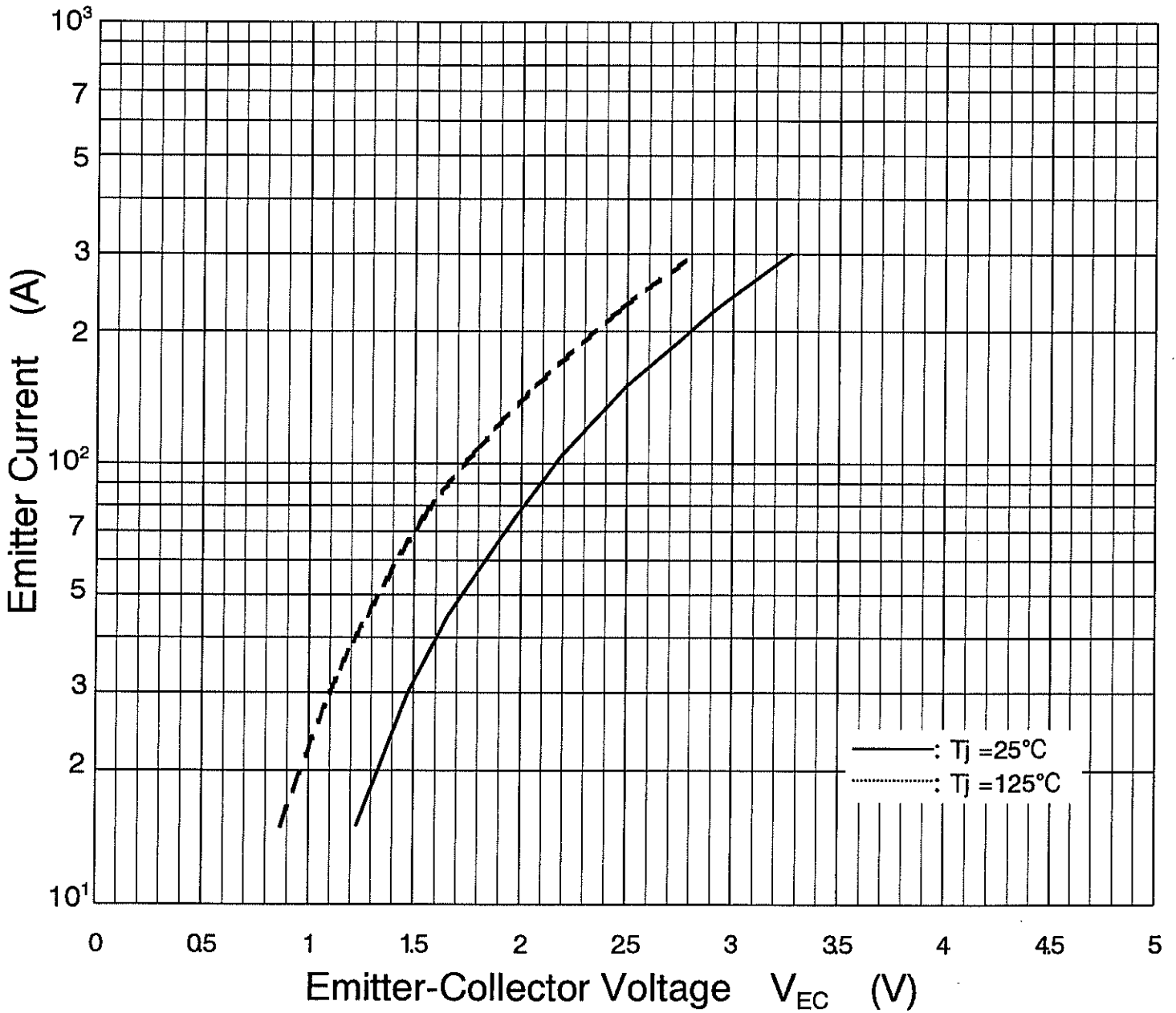
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Collector-Emitter Saturation Voltage Characteristics (Typical) CM150DY-24NF



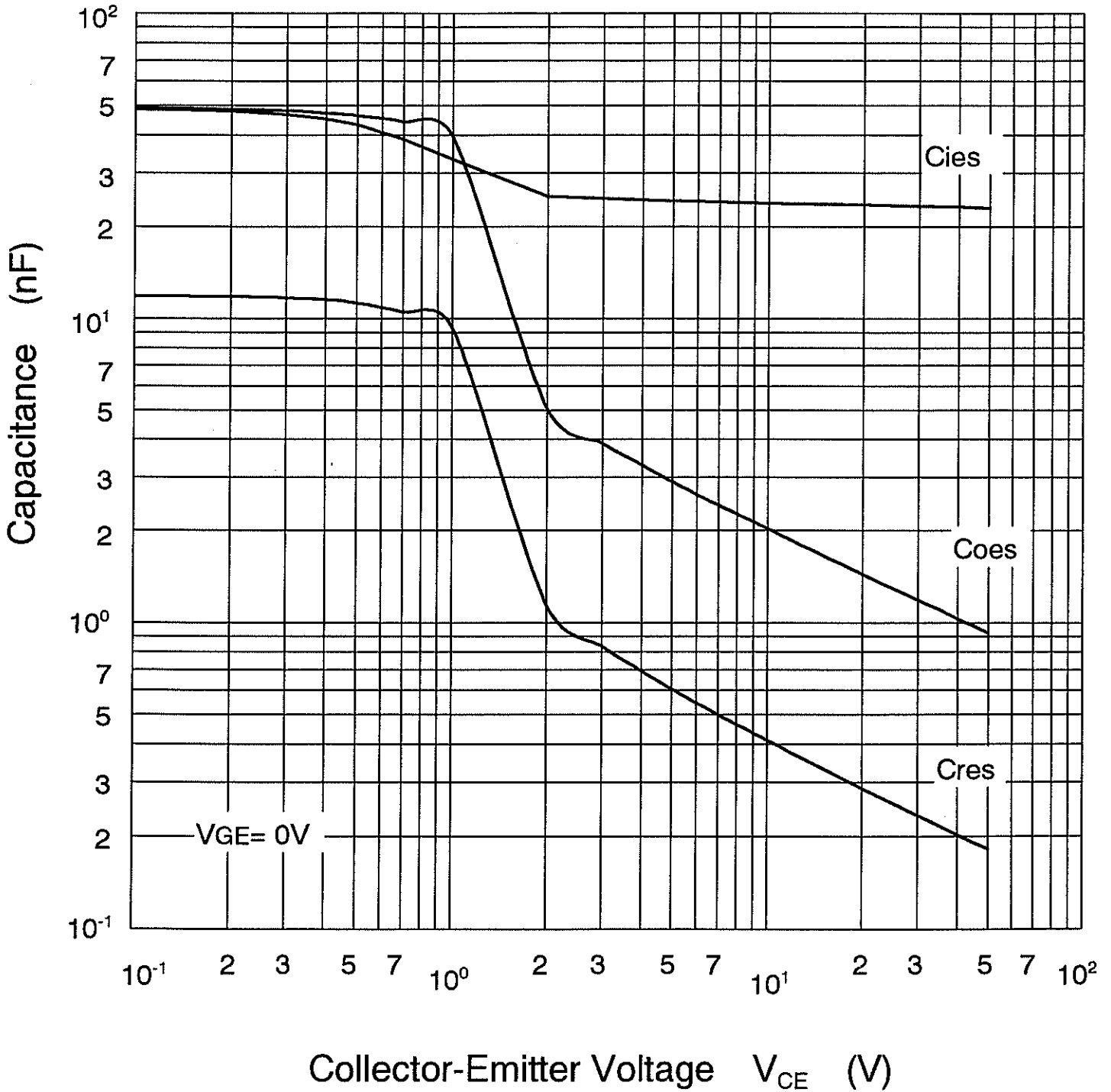
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Free-Wheel Diode Forward Characteristics (typical) CM150DY-24NF



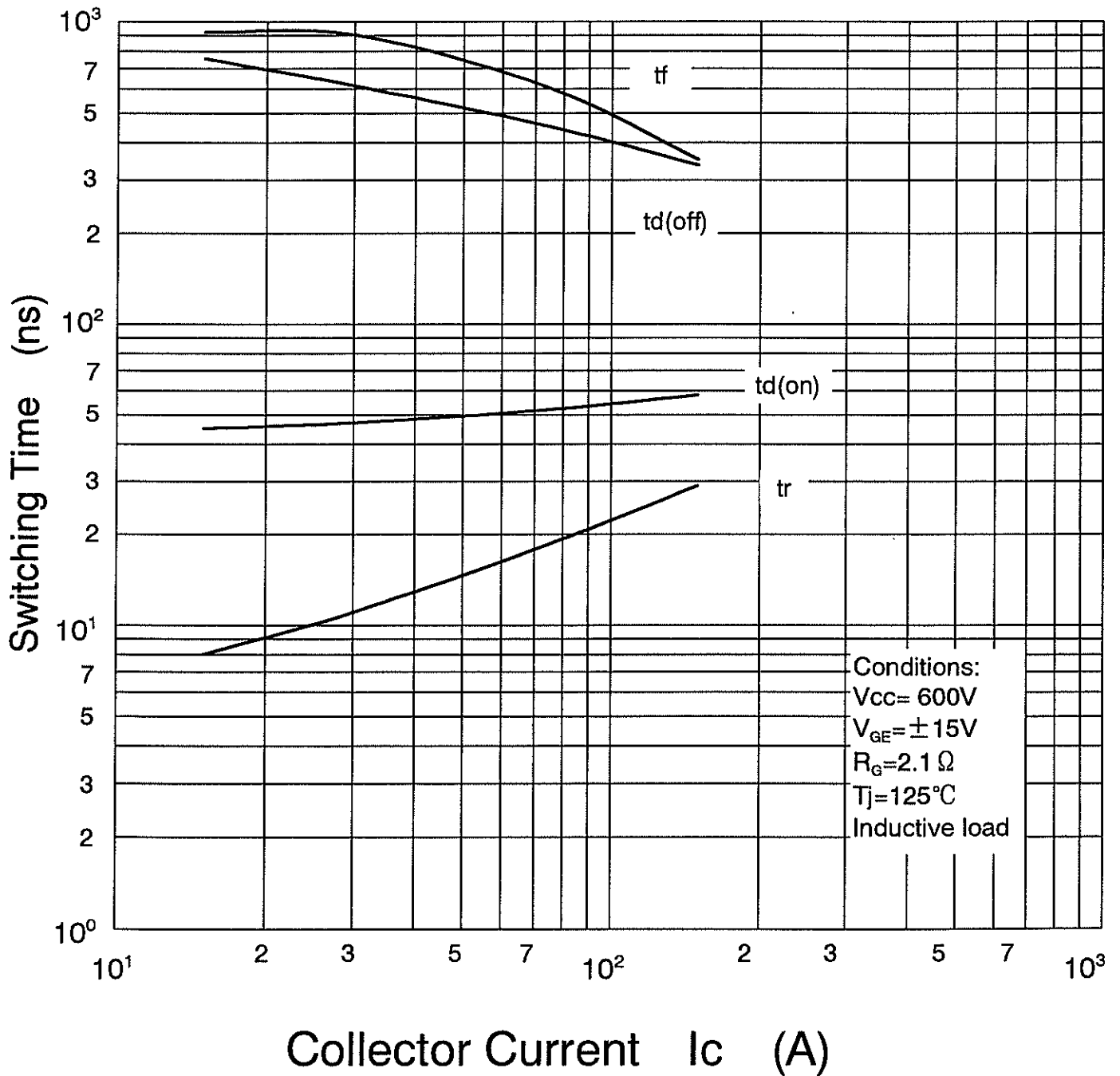
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Capacitance- V_{CE} Characteristics
 (typical)
 CM150DY-24NF



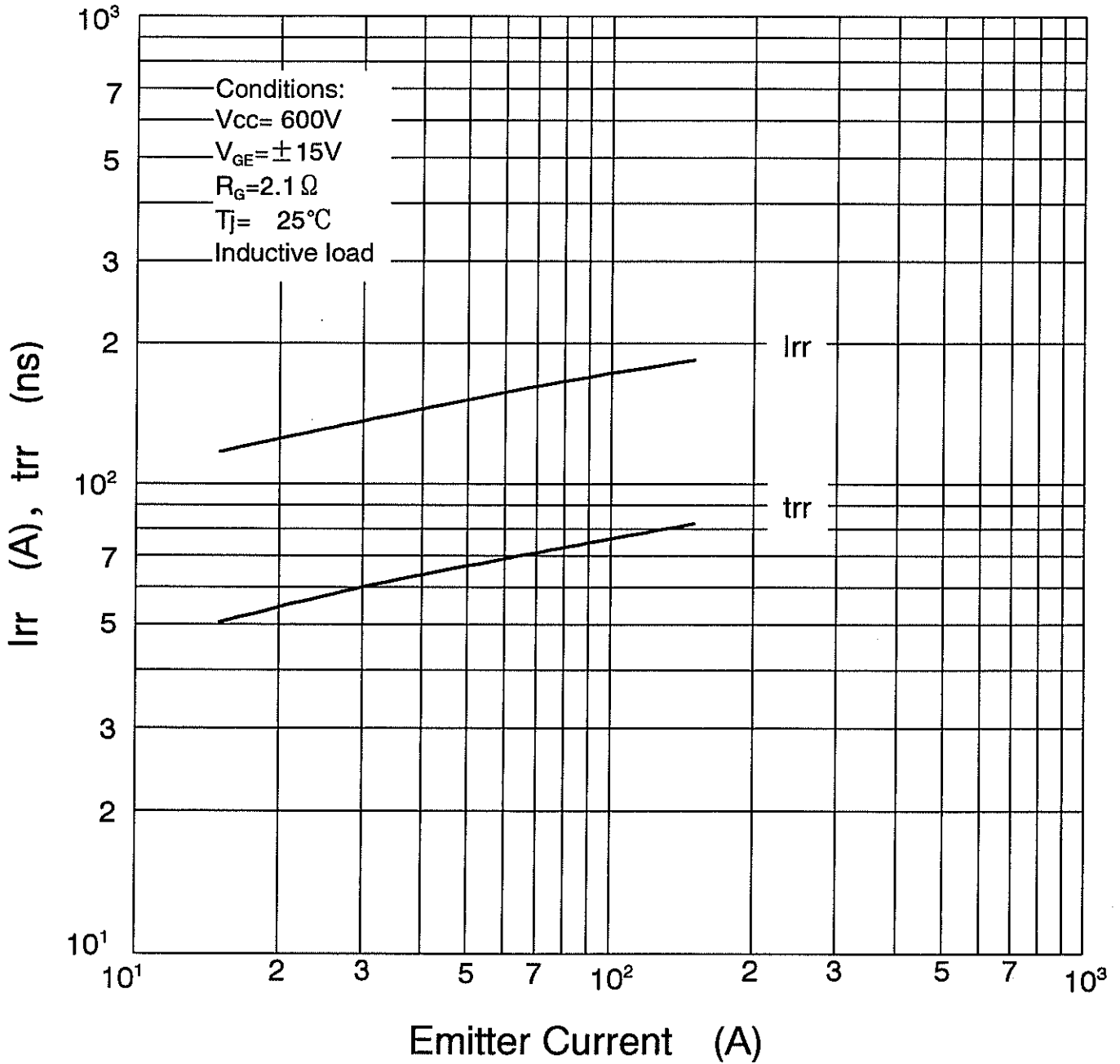
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Half-Bridge Switching Characteristics (typical) CM150DY-24NF



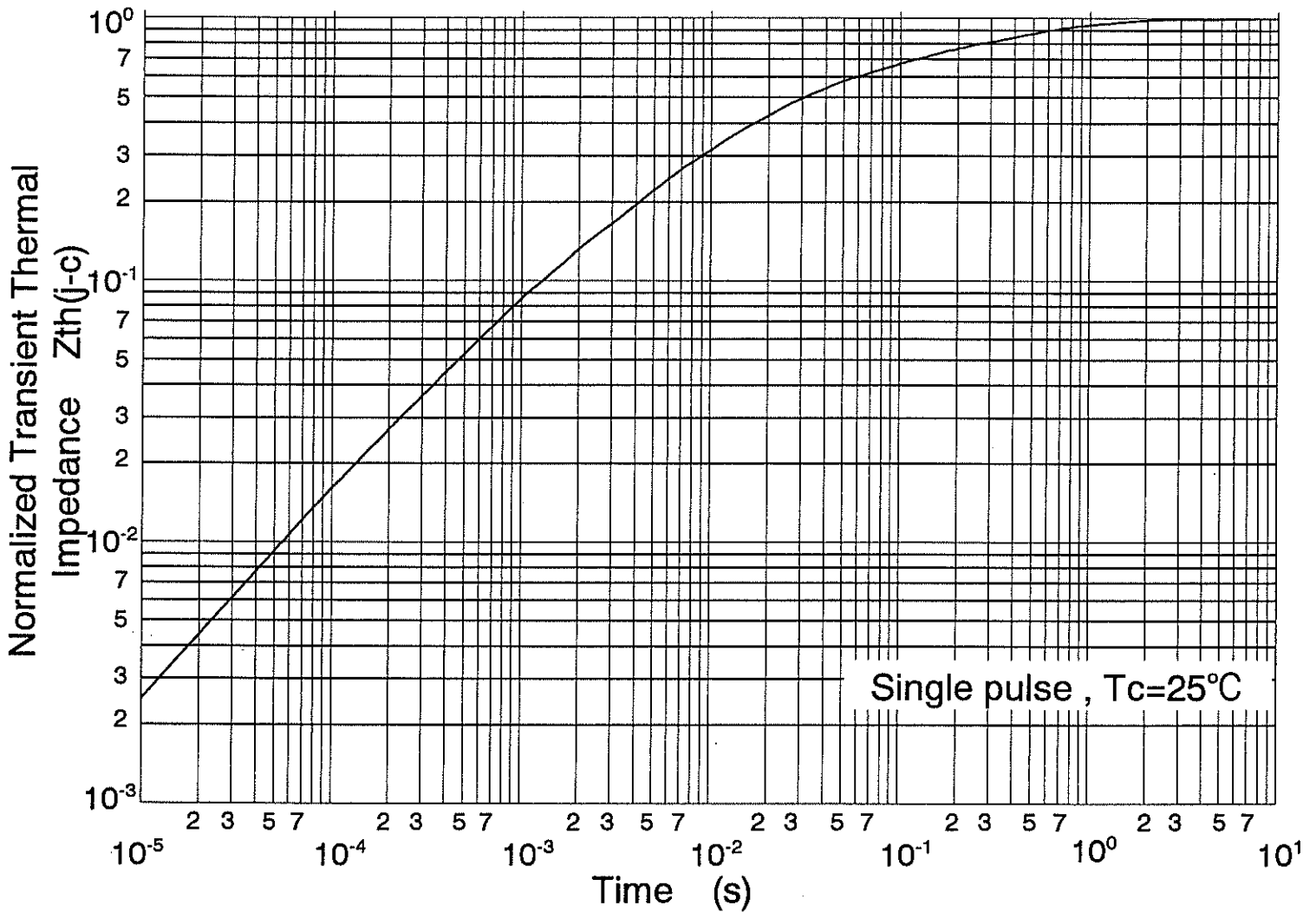
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Reverse Recovery Characteristics of Free-Wheel Diode (typical) CM150DY-24NF



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Transient Thermal Impedance Characteristics (IGBT part & FWD part) CM150DY-24NF



IGBT part :
 Per unit base= $R_{th(j-c)}=0.16^{\circ}\text{C}/\text{W}$
 FWD part :
 Per unit base= $R_{th(j-c)}=0.25^{\circ}\text{C}/\text{W}$

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Gate Charge Characteristics (typical) CM150DY-24NF

