

MITSUBISHI ELECTRIC CORPORATION

APPLICATION NOTE	Prepared by	<i>M. Kaura</i>			
	Approved by	<i>M. Takata 7-May-'03</i>			

CMH5384.doc

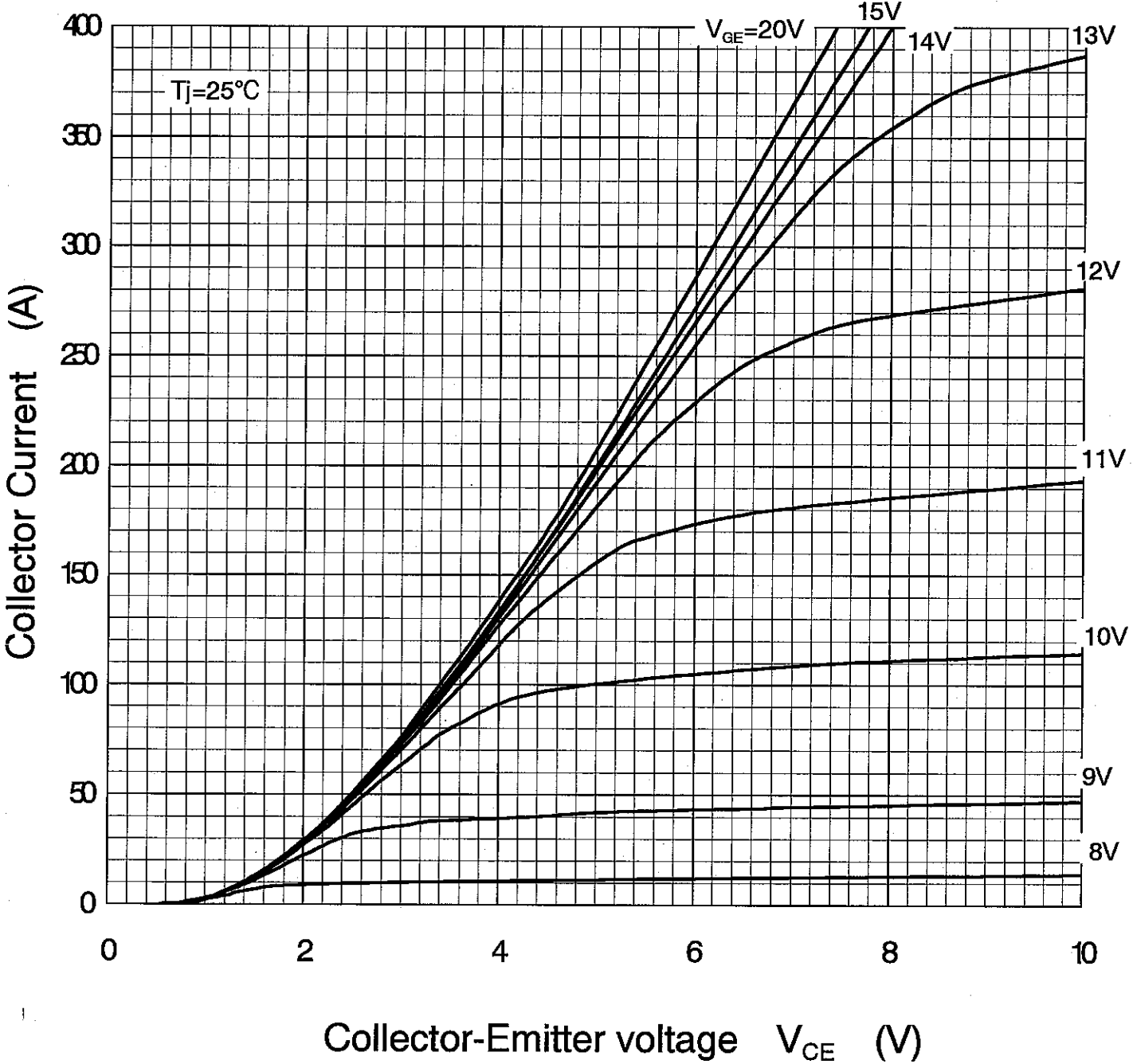
Subject Performance Curves of CM200DU-24NFH
(Tentative)

Contents

- Output Characteristics(typical)
- Transfer Characteristics(typical)
- Collector-Emitter Saturation Voltage Characteristics(typical)
- Collector-Emitter Saturation Voltage Characteristics(typical)
- Free-Wheel Diode Forward Characteristics(typical)
- Capacitance-VCE Characteristics(typical)
- Half-Bridge Switching Characteristics t vs. I_c (typical)
- Reverse Recovery Characteristics of Free-Wheel(typical)
- Transient Thermal Impedance Characteristics
(IGBT part & FWD part)
- Gate Charge Characteristics(typical)

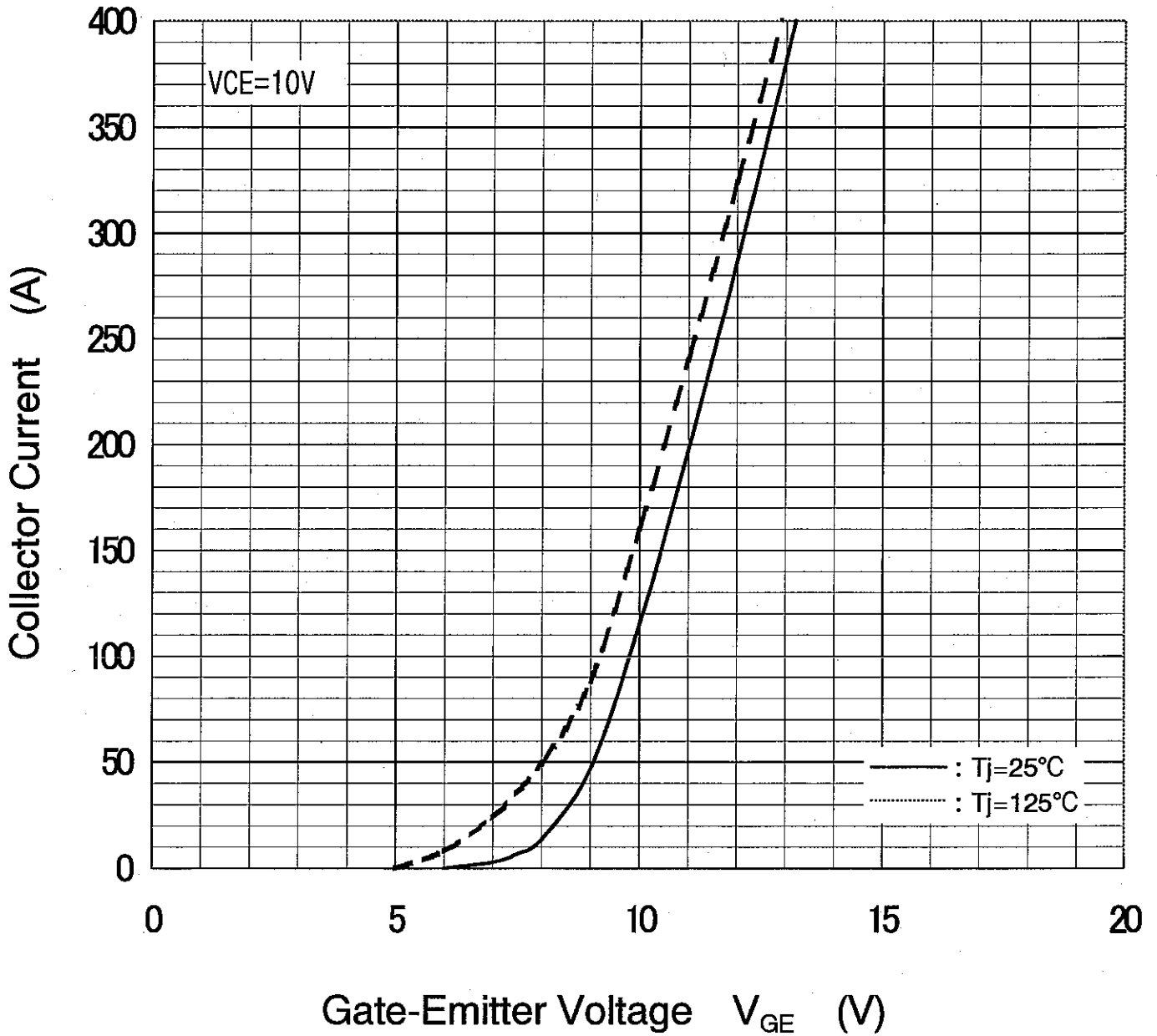
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Output Characteristics CM200DU-24NFH (Typical)



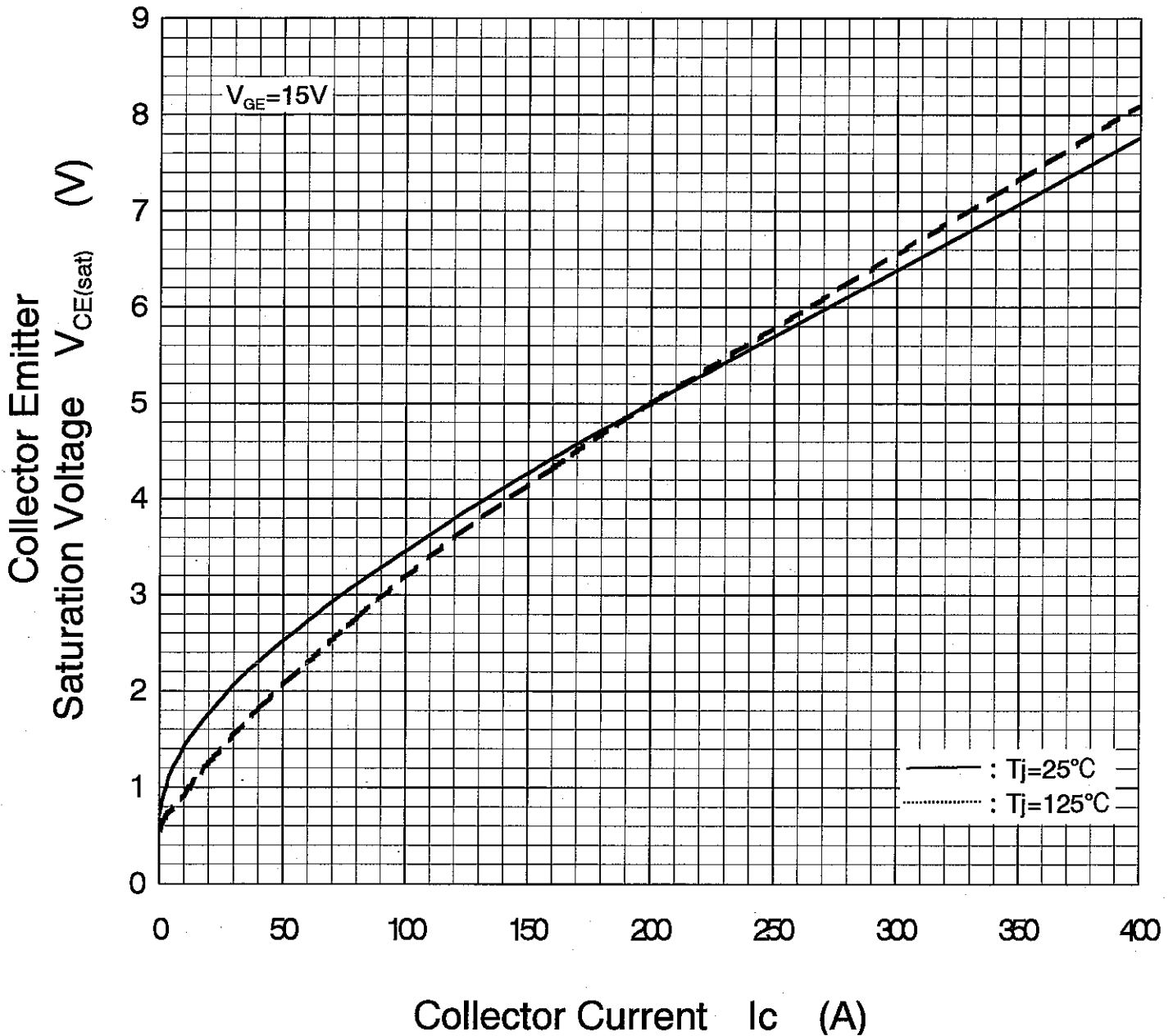
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Transfer Characteristics CM200DU-24NFH (Typical)



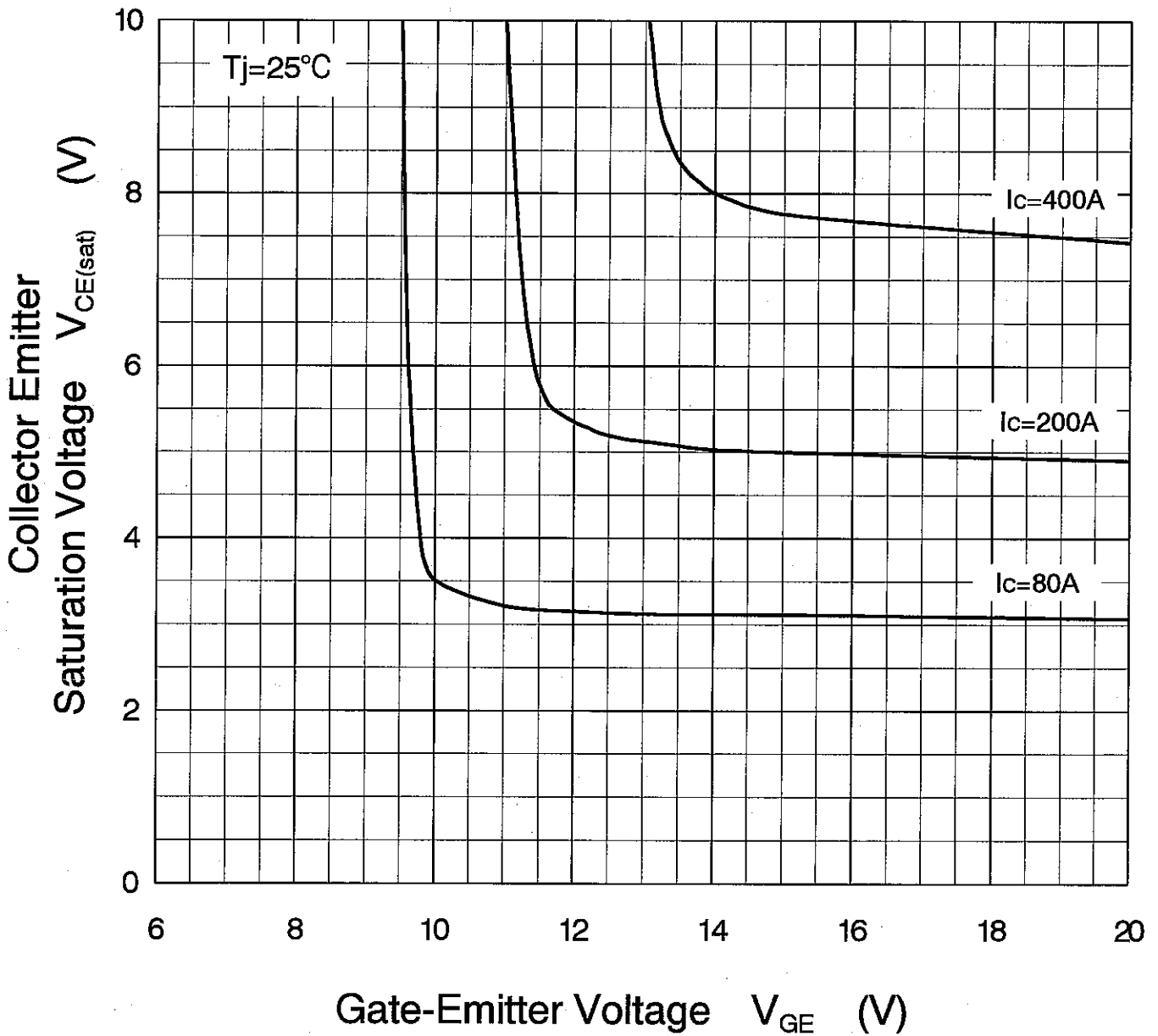
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Collector-Emitter Saturation Voltage Characteristics CM200DU-24NFH (Typical)



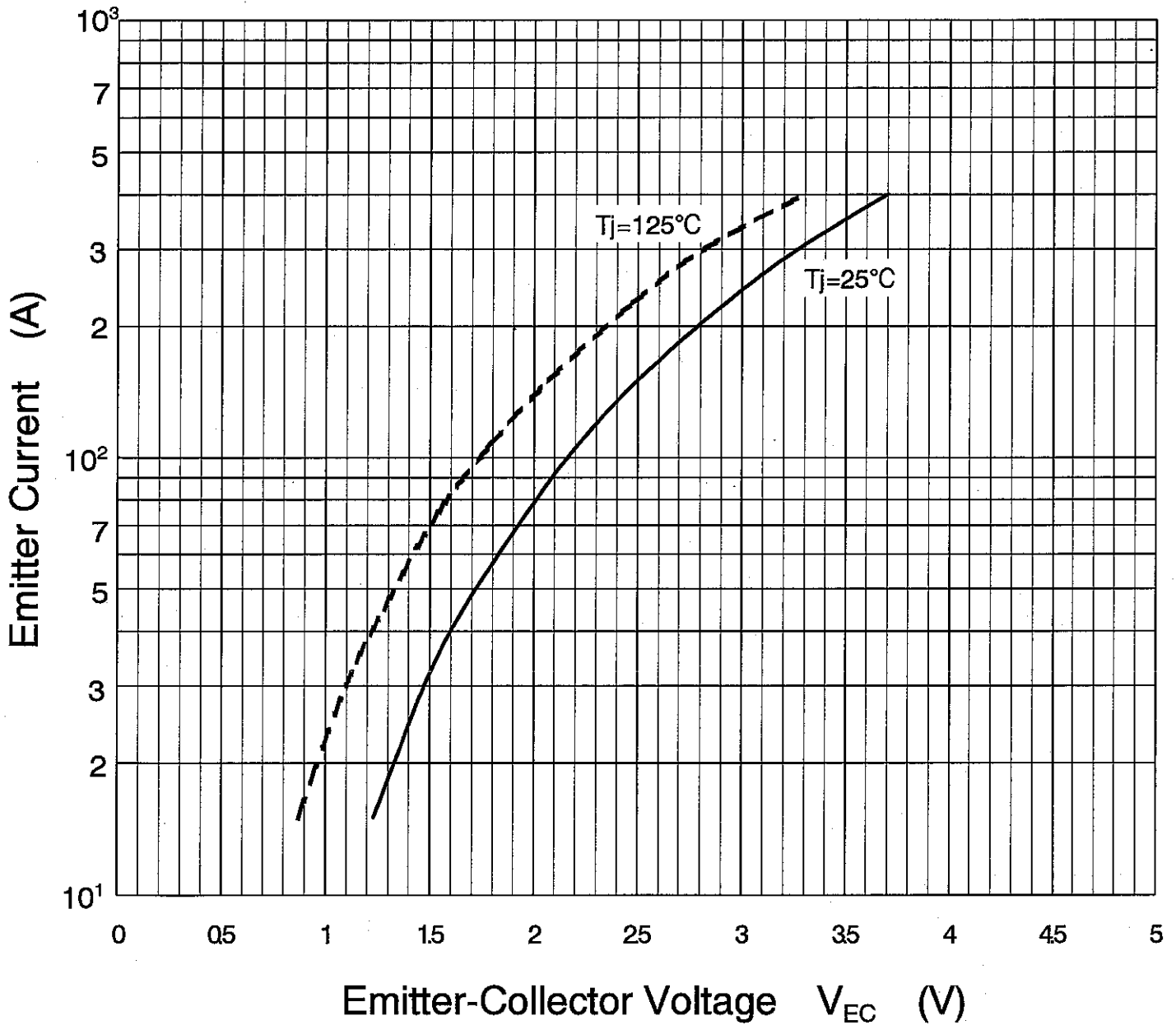
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Collector-Emitter Saturation Voltage Characteristics CM200DU-24NFH (Typical)



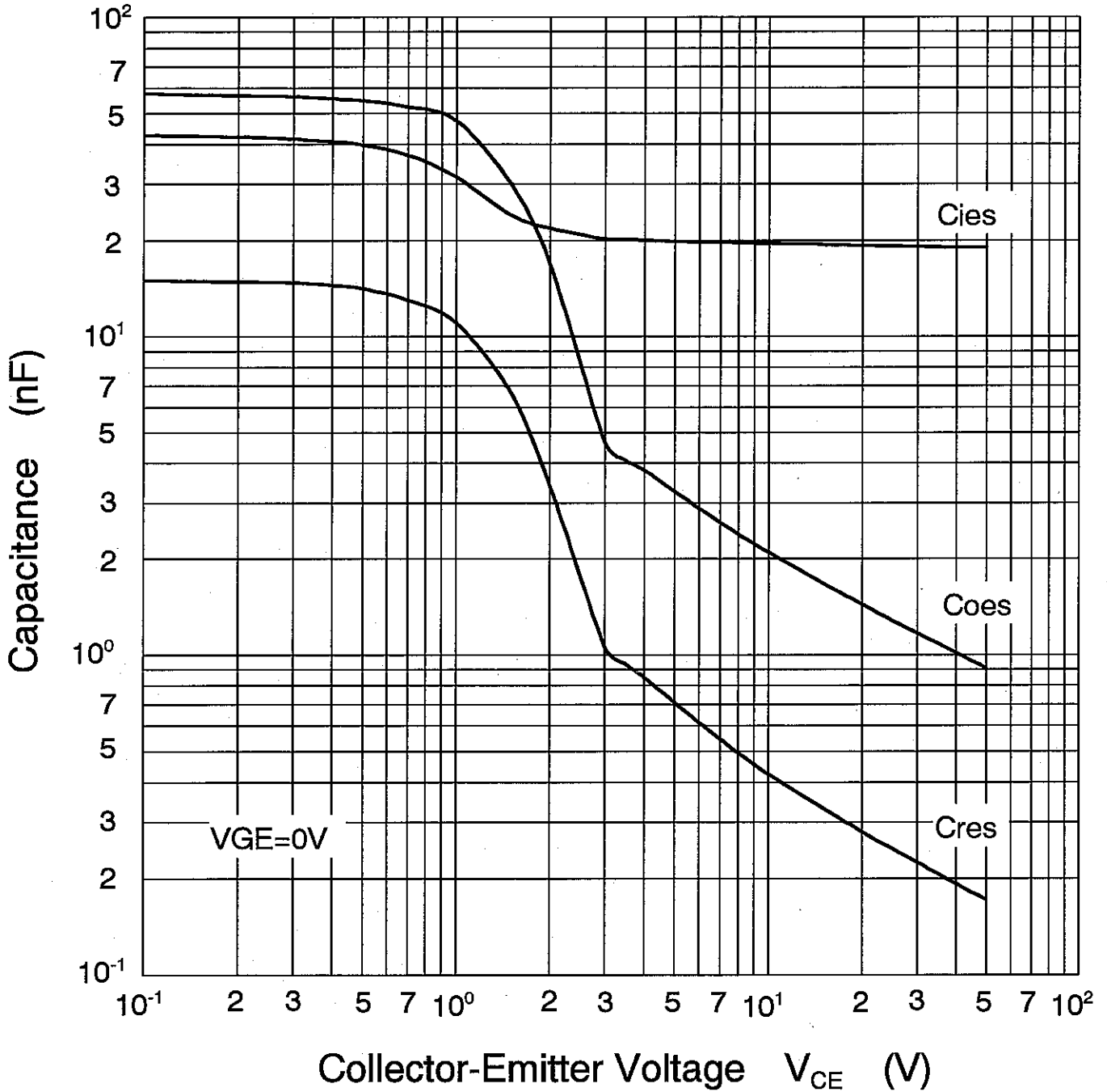
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Free-Wheel Diode Forward Characteristics CM200DU-24NFH (typical)



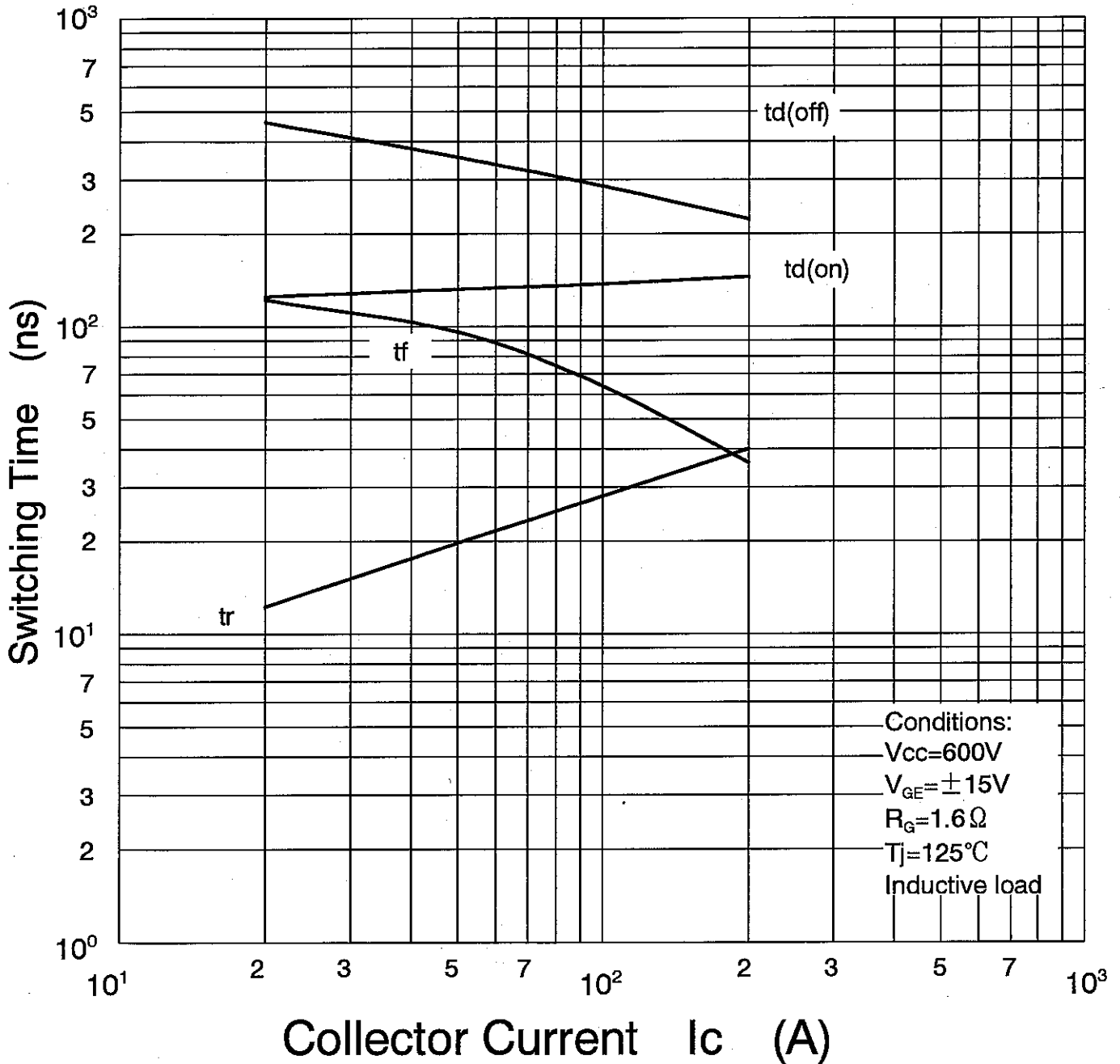
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Capacitance-VCE Characteristics CM200DU-24NFH (typical)



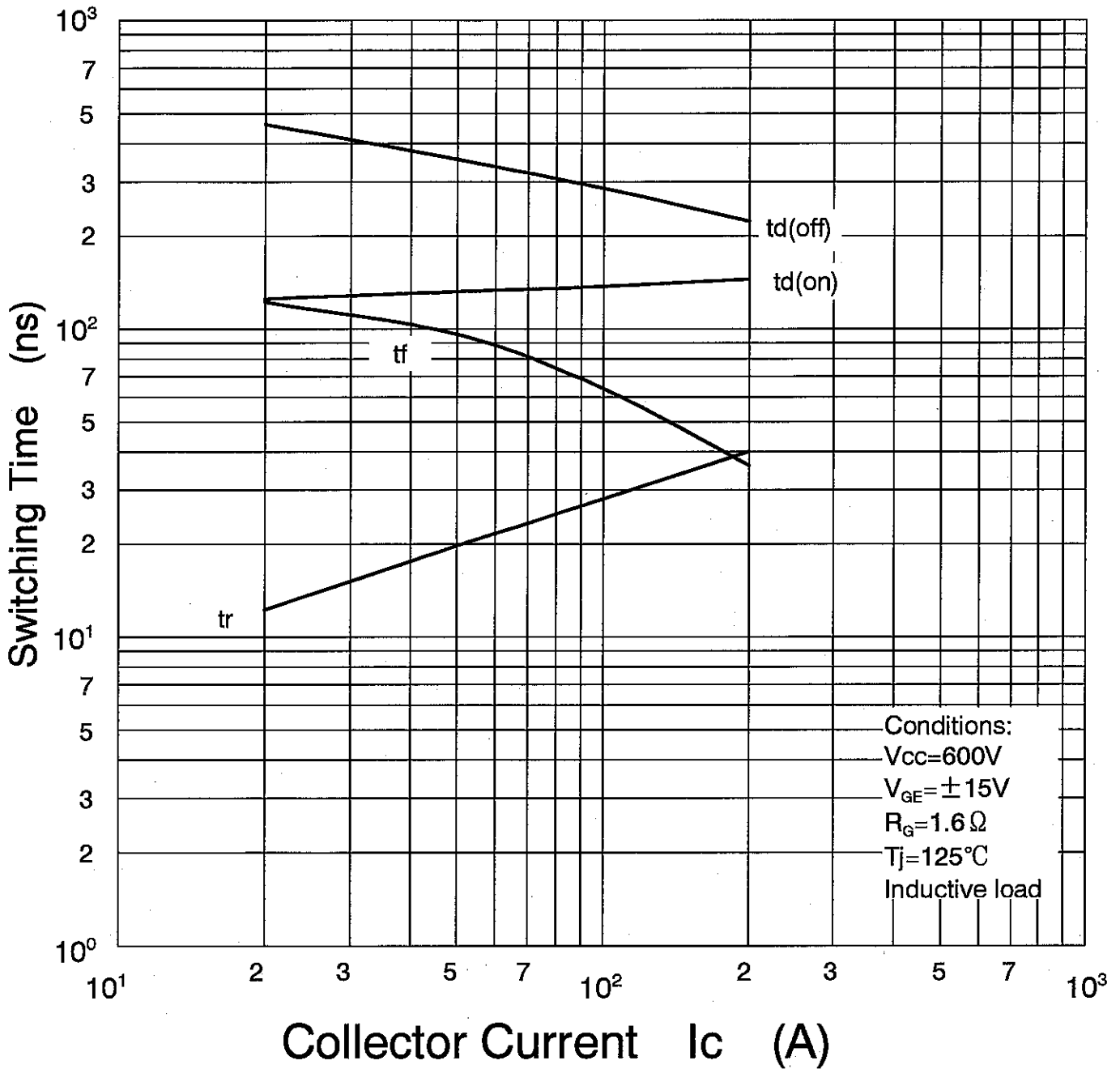
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Half-Bridge Switching Characteristics CM200DU-24NFH (typical)



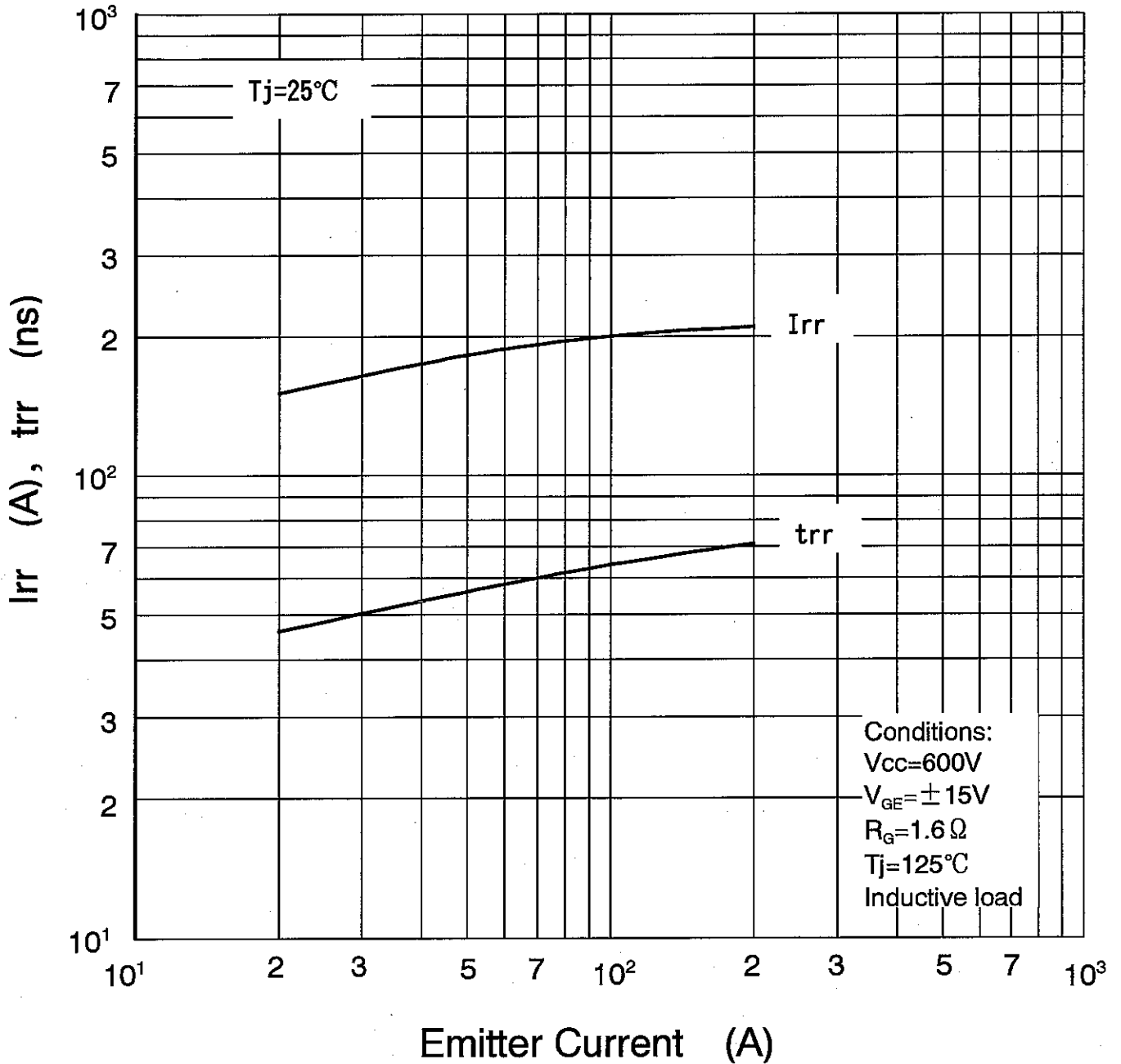
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Half-Bridge Switching Characteristics CM200DU-24NFH (typical)



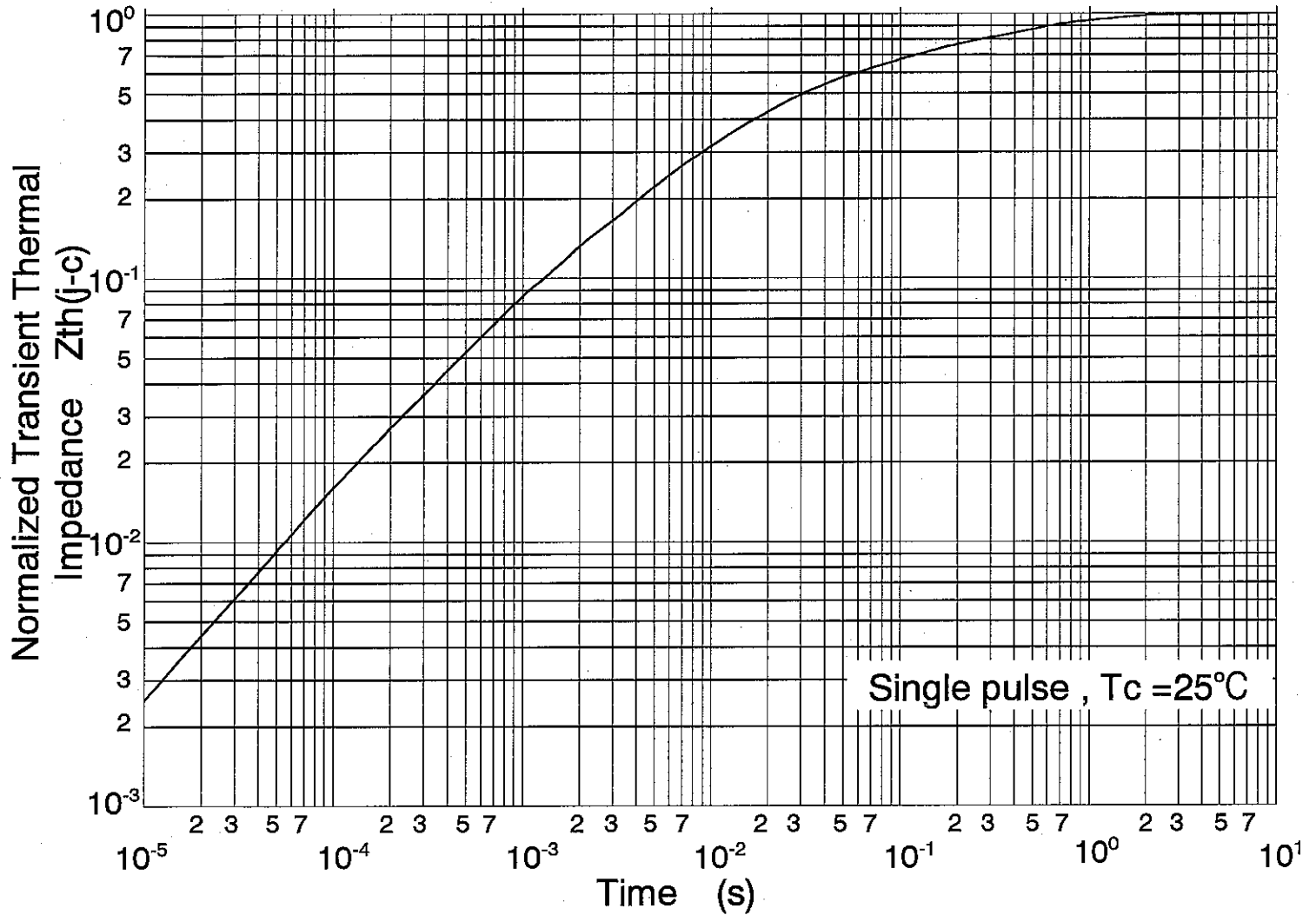
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Reverse Recovery Characteristics Of Free-Wheel Diode CM200DU-24NFH (typical)



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Transient Thermal Impedance Characteristics (IGBT part & FWD part) CM200DU-24NFH



IGBT part :

Per unit base= $R_{th(j-c)}=0.15^{\circ}\text{C/W}$

FWD part :

Per unit base= $R_{th(j-c)}=0.24^{\circ}\text{C/W}$

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Gate Charge Characteristics CM200DU-24NFH (typical)

