

MITSUBISHI ELECTRIC CORPORATION

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

CMH5382.doc

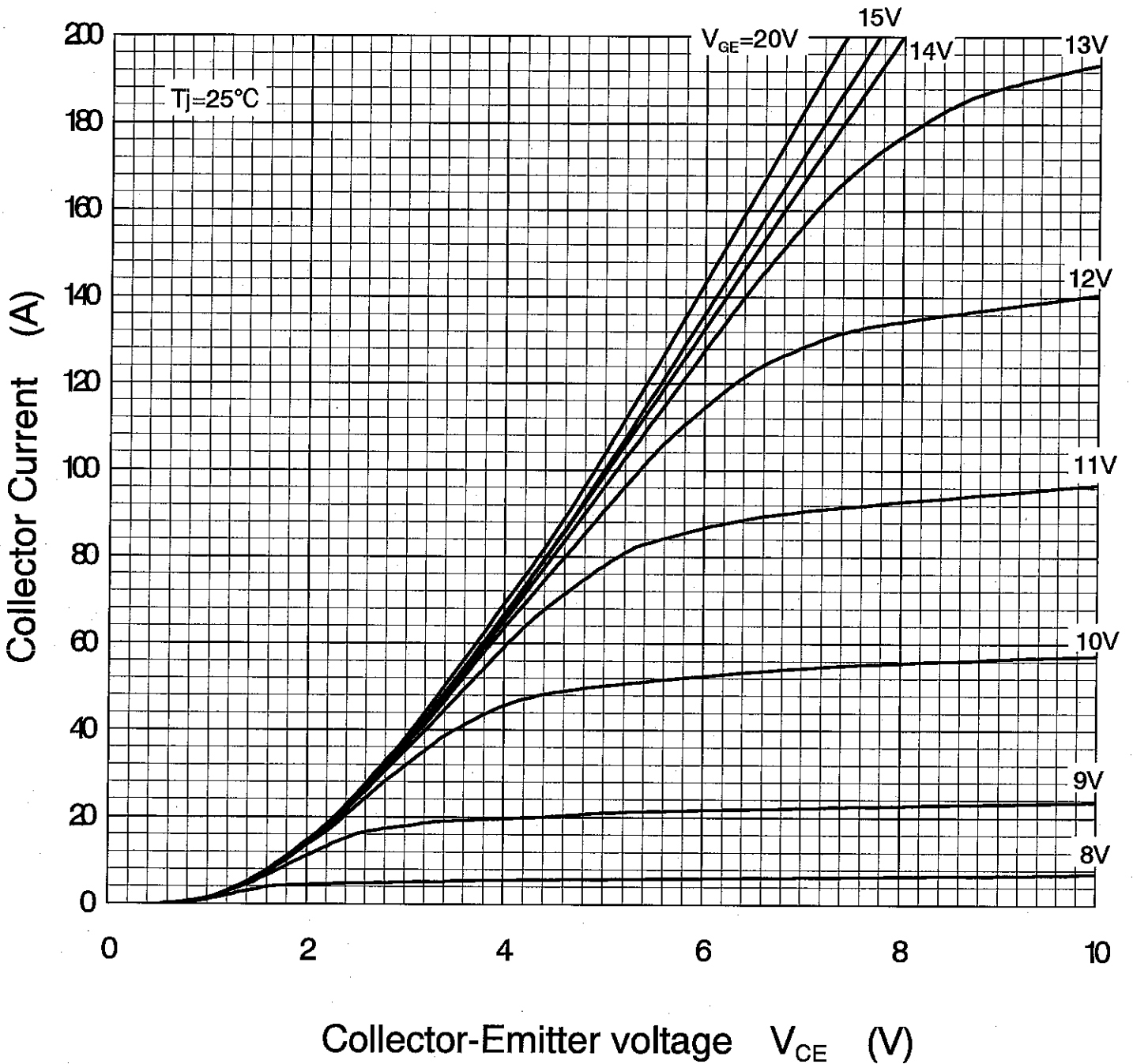
Subject Performance Curves of CM100DU-24NFH
(Tentative)

Contents

- Output Characteristics(typical)
- Transfer Characteristics(typical)
- Collector-Emitter Saturation Voltage Characteristics(typical)
- Collector-Emitter Saturation Voltage Characteristics(typical)
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- 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)

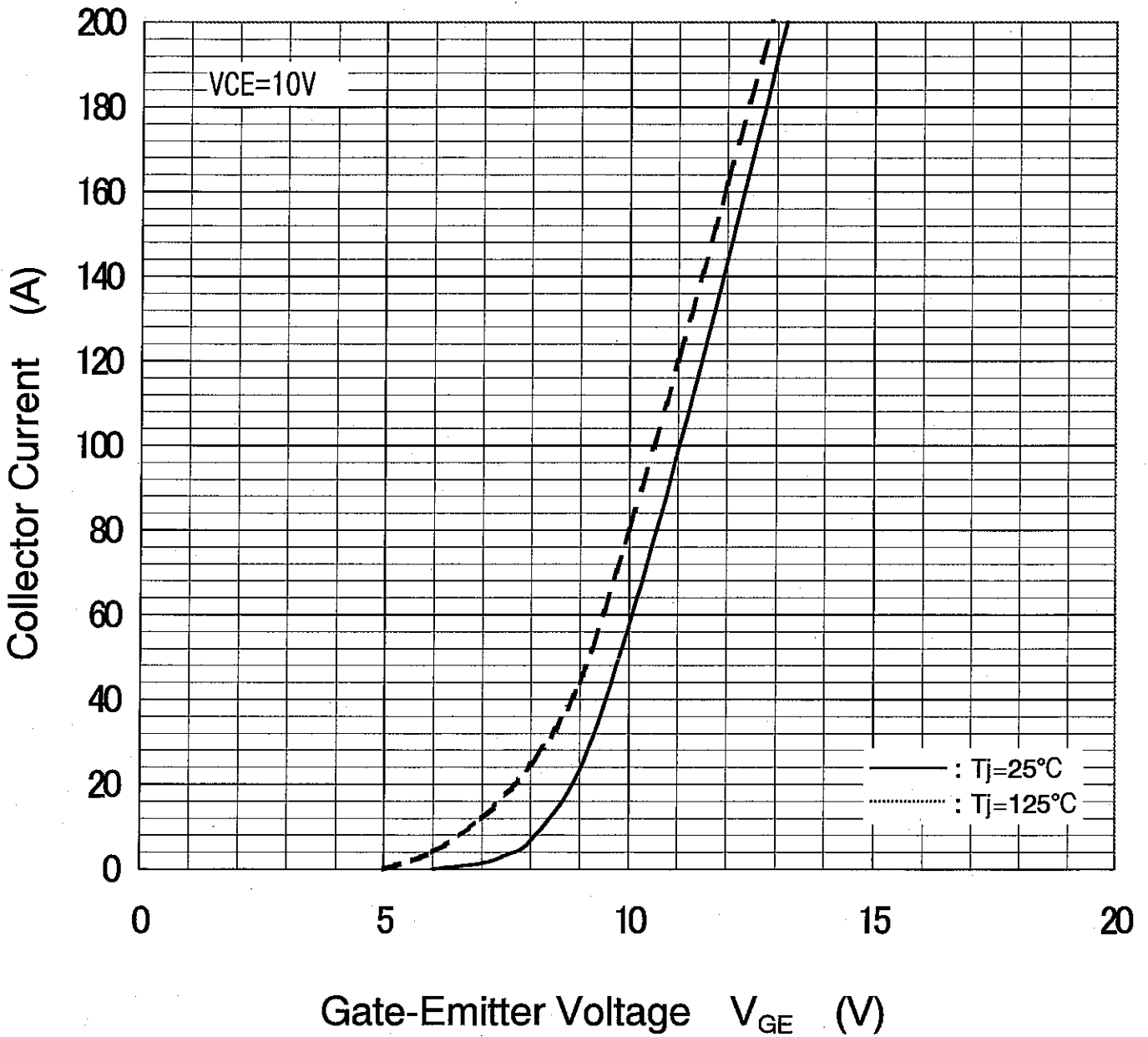
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Output Characteristics CM100DU-24NFH (Typical)



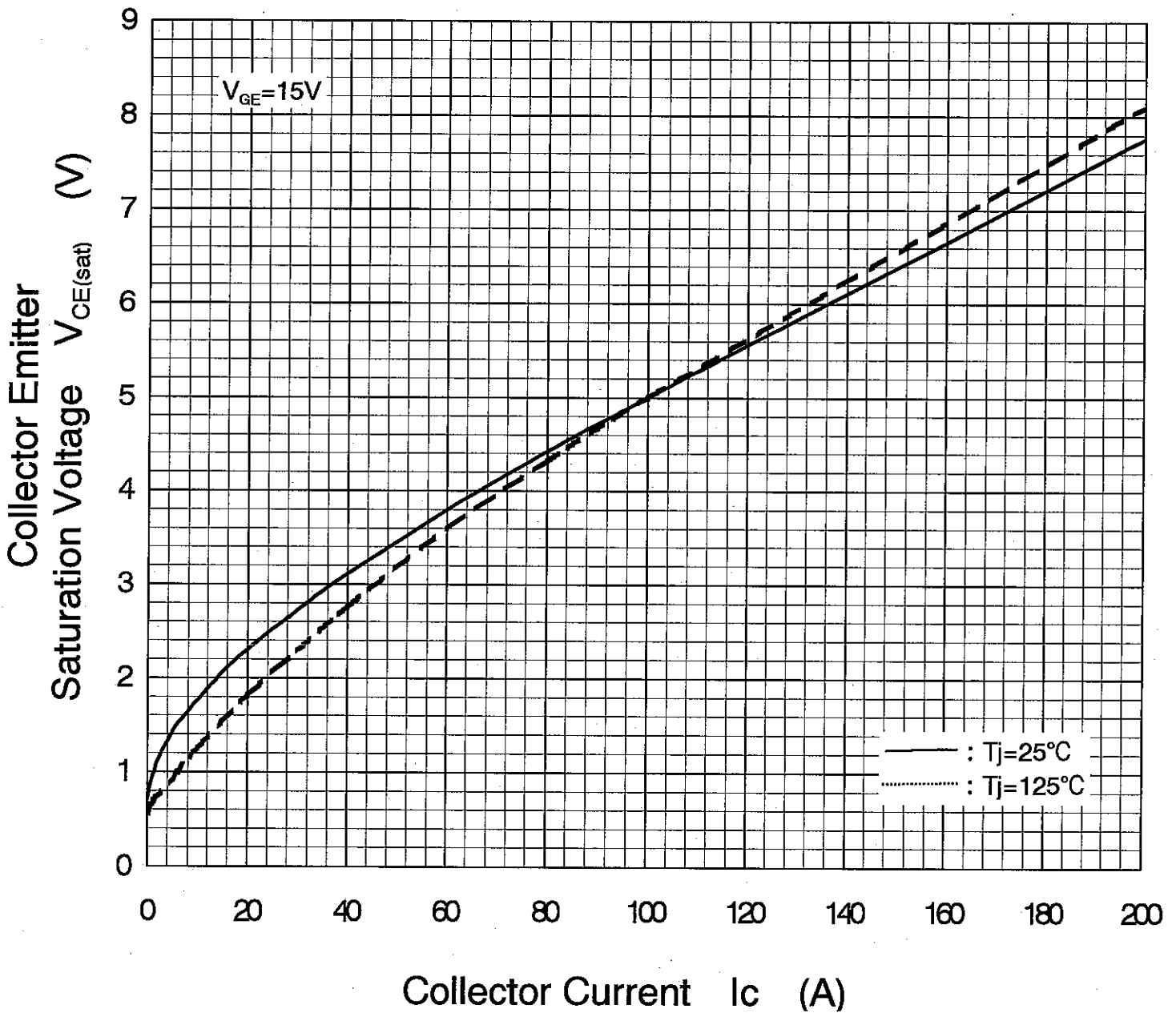
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Transfer Characteristics CM100DU-24NFH (Typical)



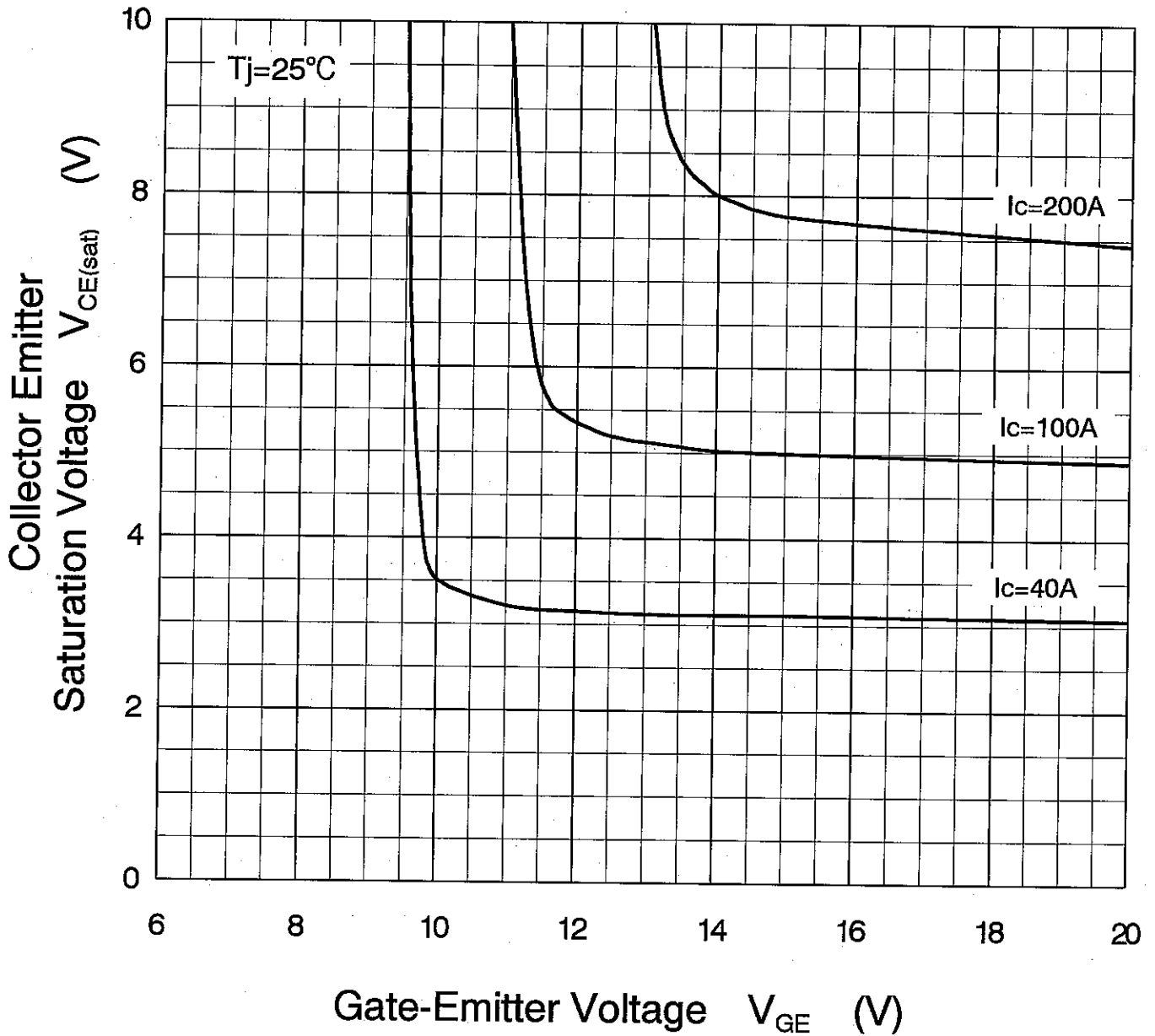
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Collector-Emitter Saturation Voltage Characteristics CM100DU-24NFH (Typical)



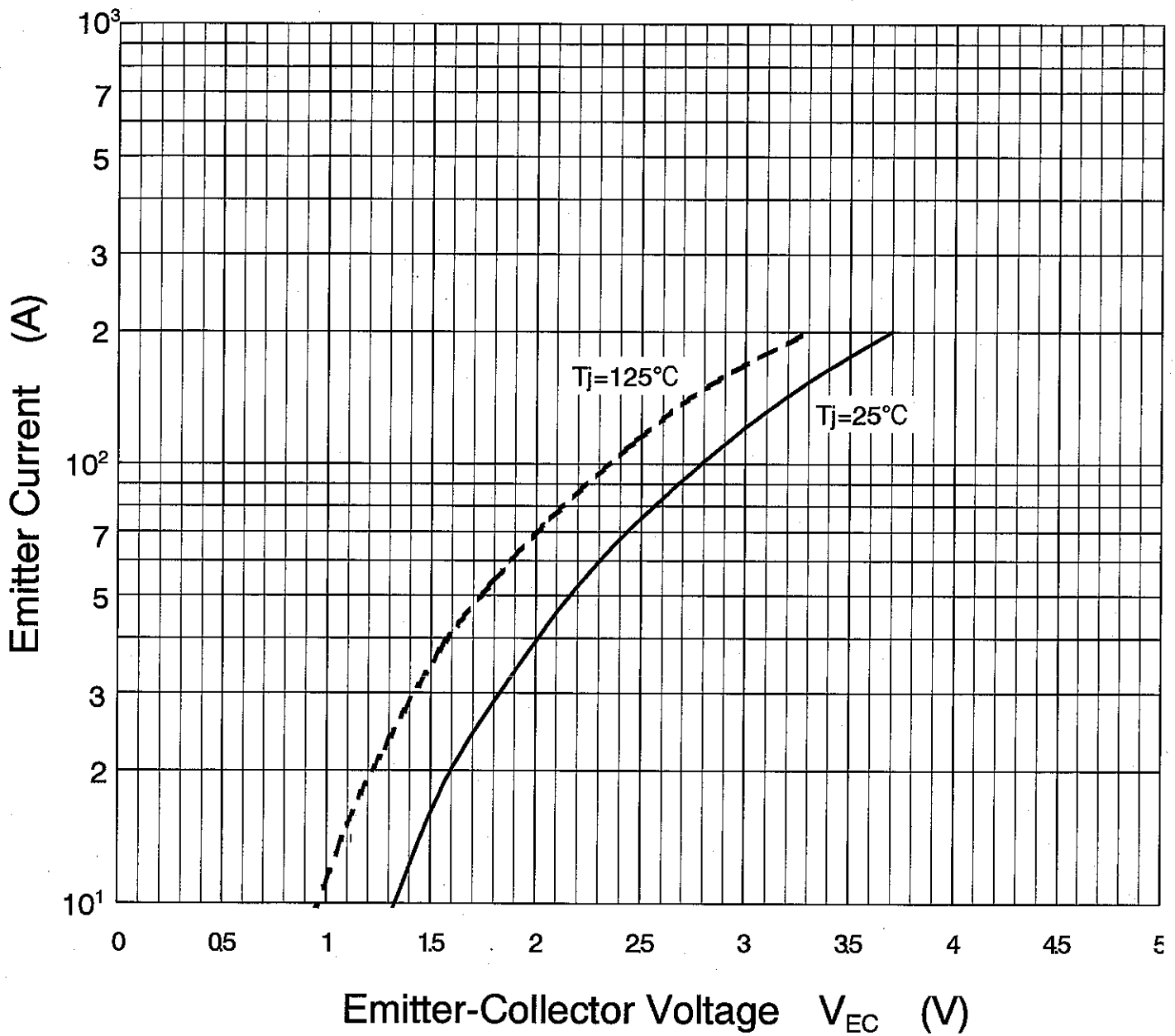
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Collector-Emitter Saturation Voltage Characteristics CM100DU-24NFH (Typical)



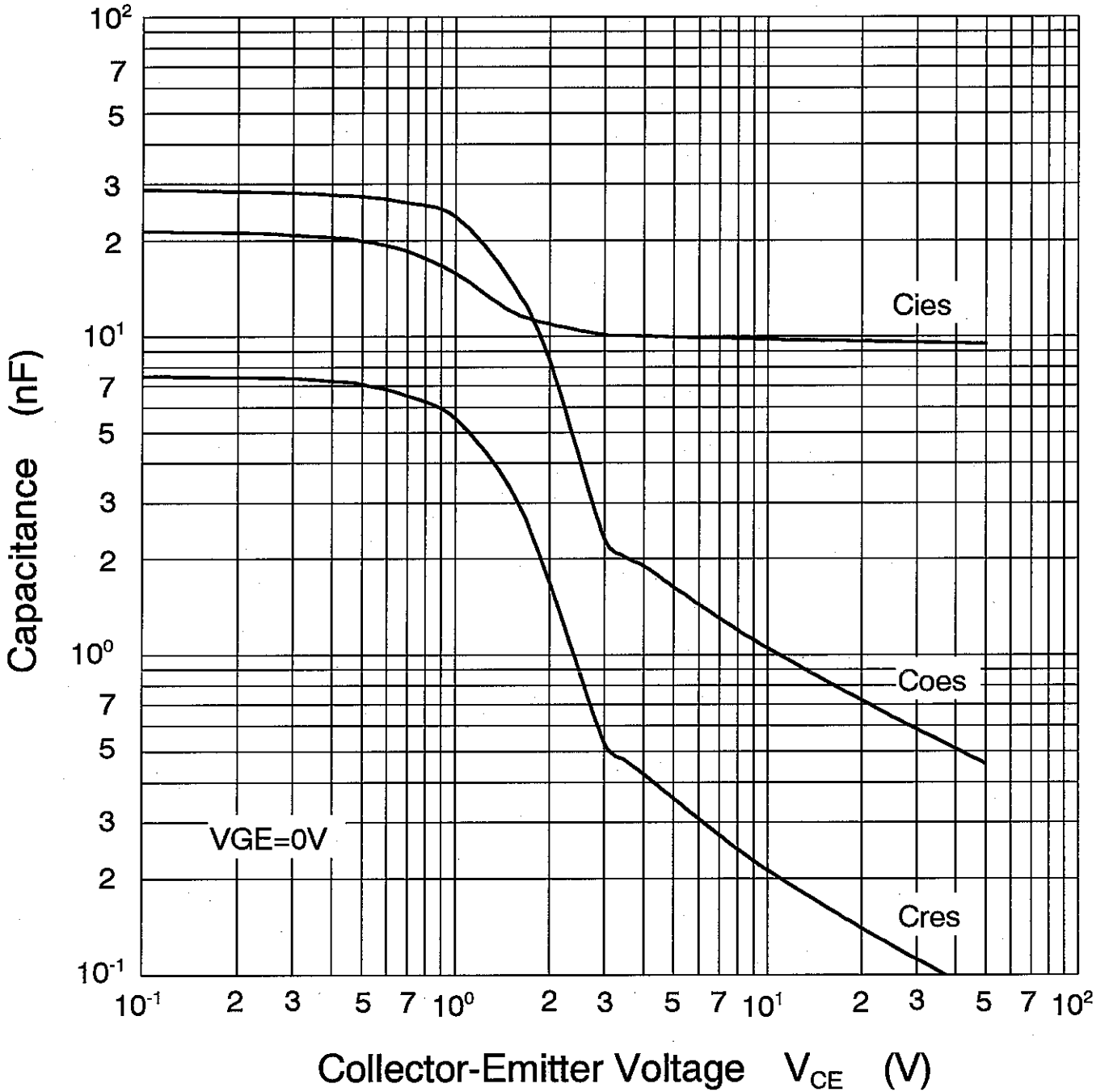
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Free-Wheel Diode Forward Characteristics CM100DU-24NFH (typical)



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Capacitance- V_{CE} Characteristics CM100DU-24NFH (typical)

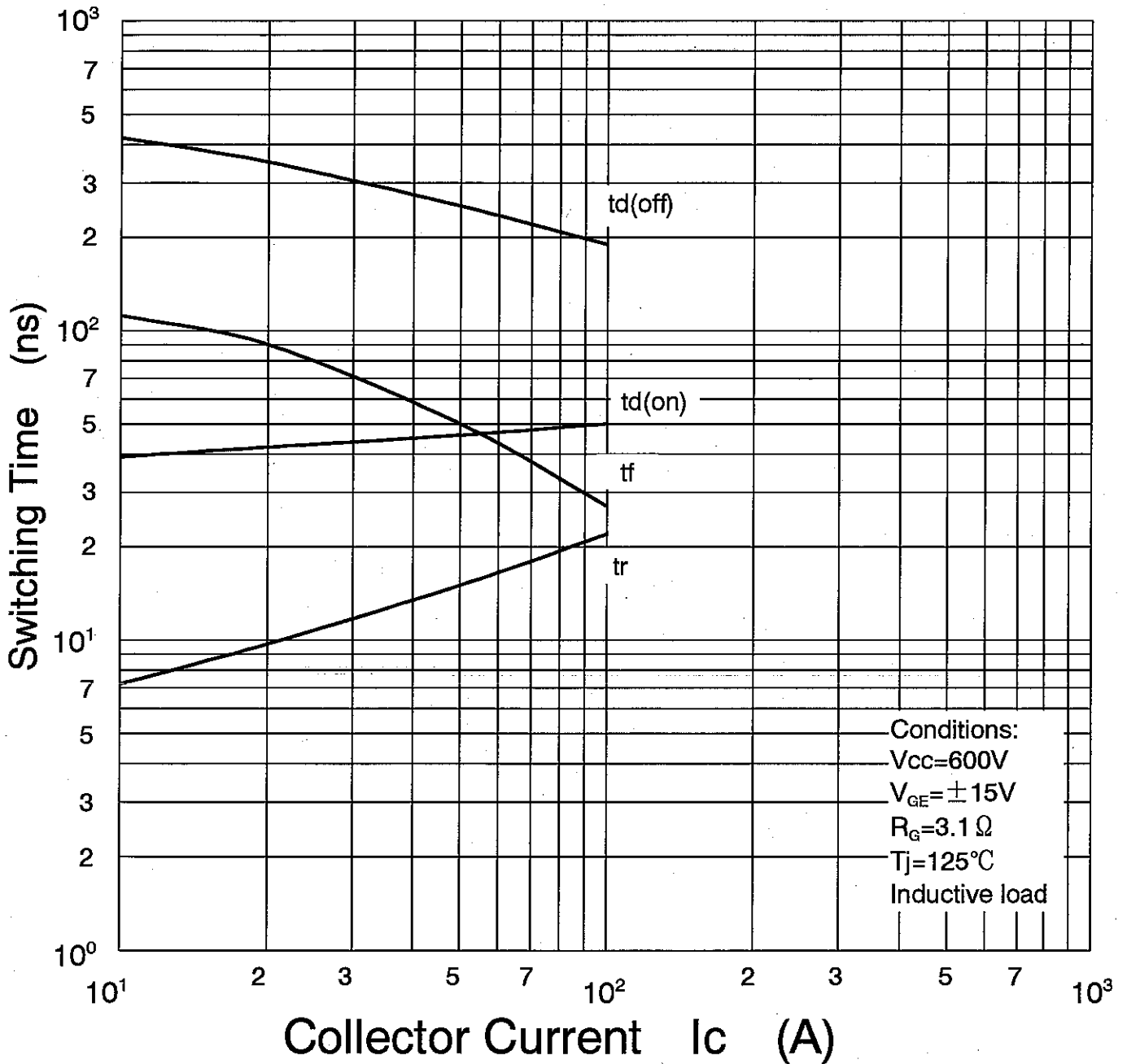


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Half-Bridge Switching Characteristics

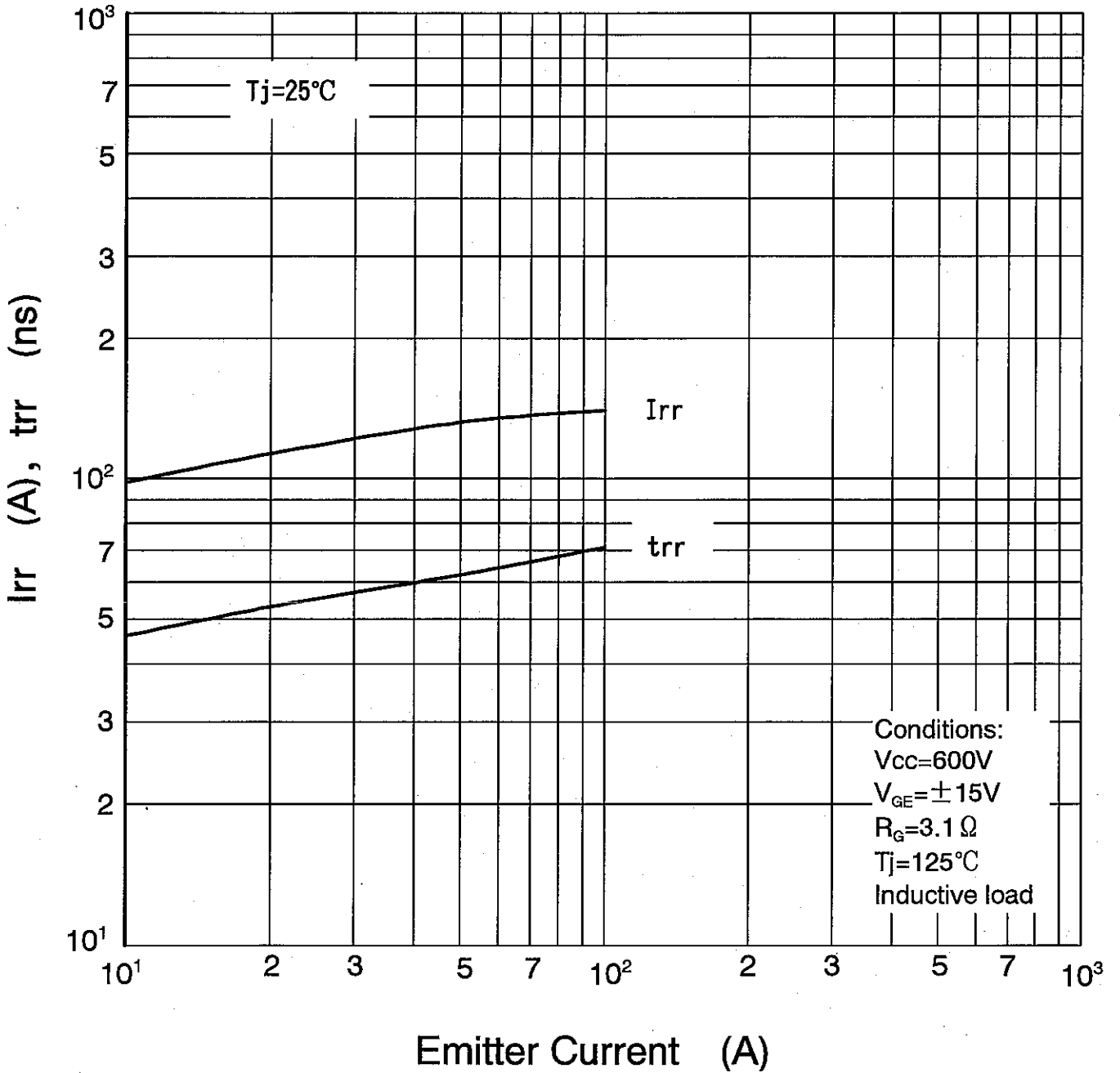
CM100DU-24NFH

(typical)



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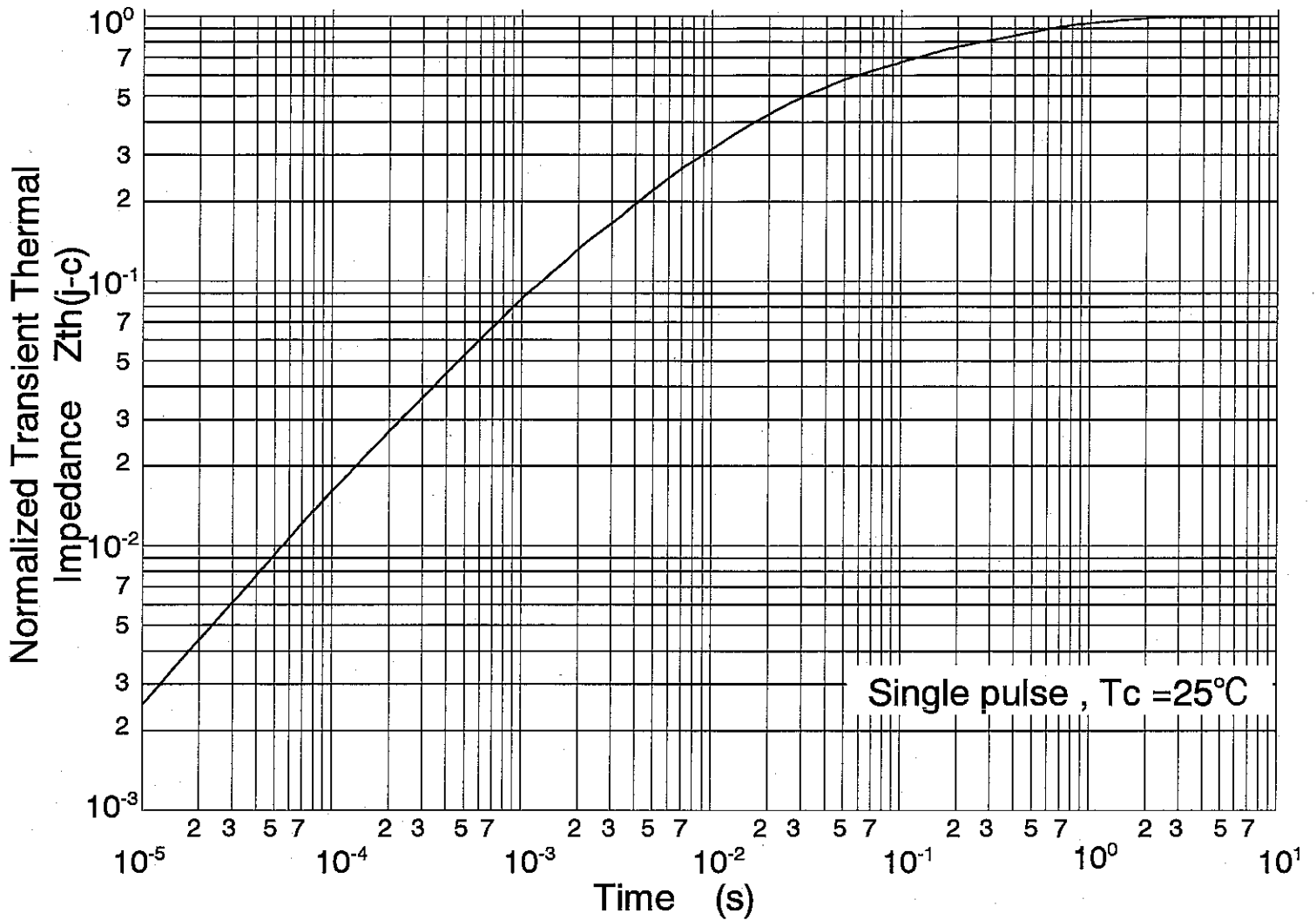
Reverse Recovery Characteristics Of Free-Wheel Diode CM100DU-24NFH (typical)



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Transient Thermal Impedance Characteristics
 (IGBT part & FWD part)
 CM100DU-24NFH



IGBT part :

Per unit base= $R_{th(j-c)}=0.22^{\circ}\text{C/W}$

FWD part :

Per unit base= $R_{th(j-c)}=0.47^{\circ}\text{C/W}$

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Gate Charge Characteristics CM100DU-24NFH (typical)

