

MITSUBISHI ELECTRIC CORPORATION

APPLICATION NOTE	Prepared by	S.Uchida	Rev	A	<i>M. KENTIA</i>
	Approved by	M.Tabata 25-Oct '02			<i>M. Tabata 17-Jan. '03</i>

CMH5106A.doc

Subject Performance Curves of CM300DY-24NF

Contents

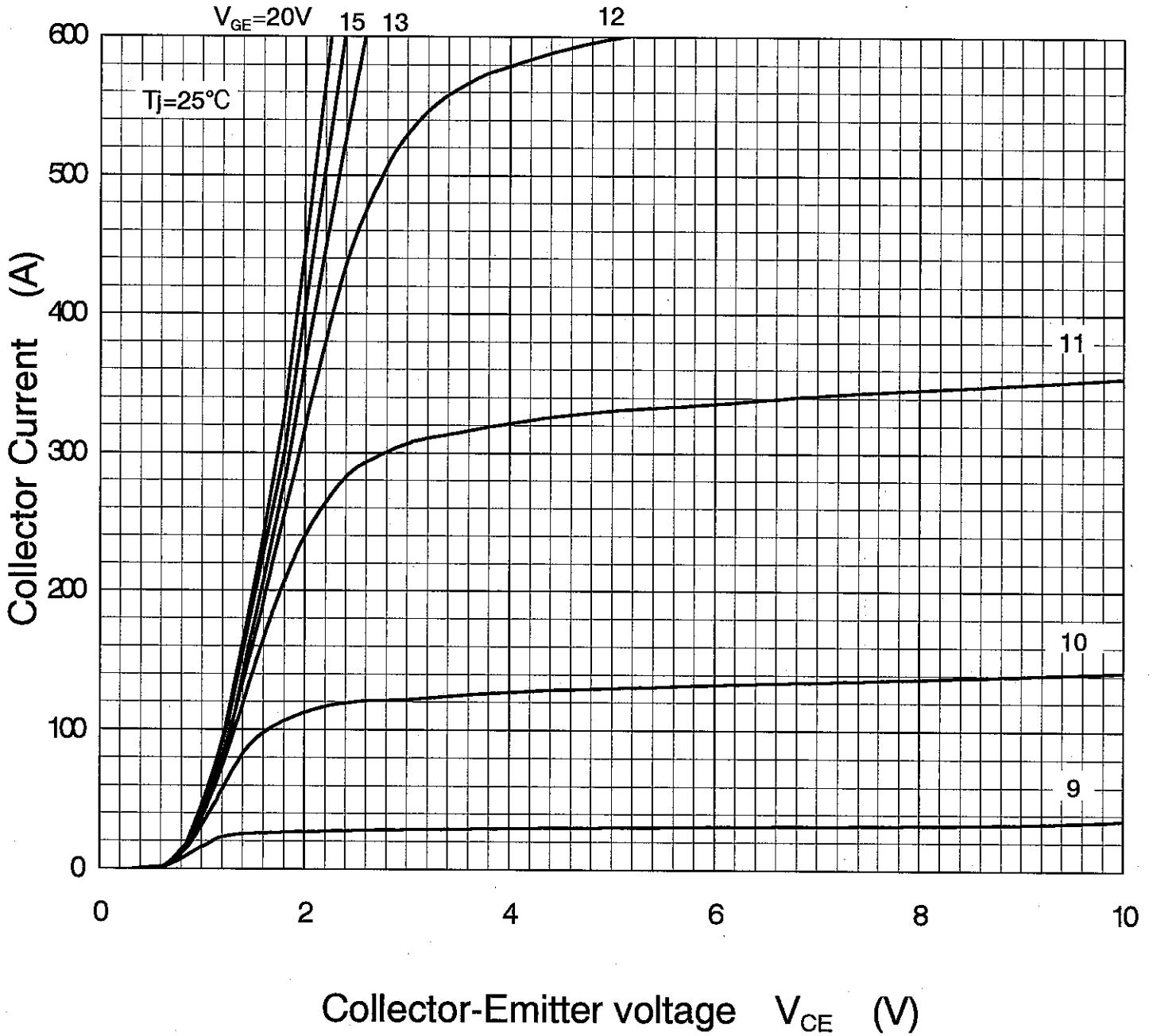
- Output Characteristics(typical)
- Collector-Emitter Saturation Voltage Characteristics(typical)
- Collector-Emitter Saturation Voltage Characteristics(typical)
- Free-Wheel Diode Forward Characteristics(typical)
- Capacitance-VCE Characteristics(typical)
- Half-Bridge Switching Characteristics(typical)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

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-5106-A	APPLICATION NOTE
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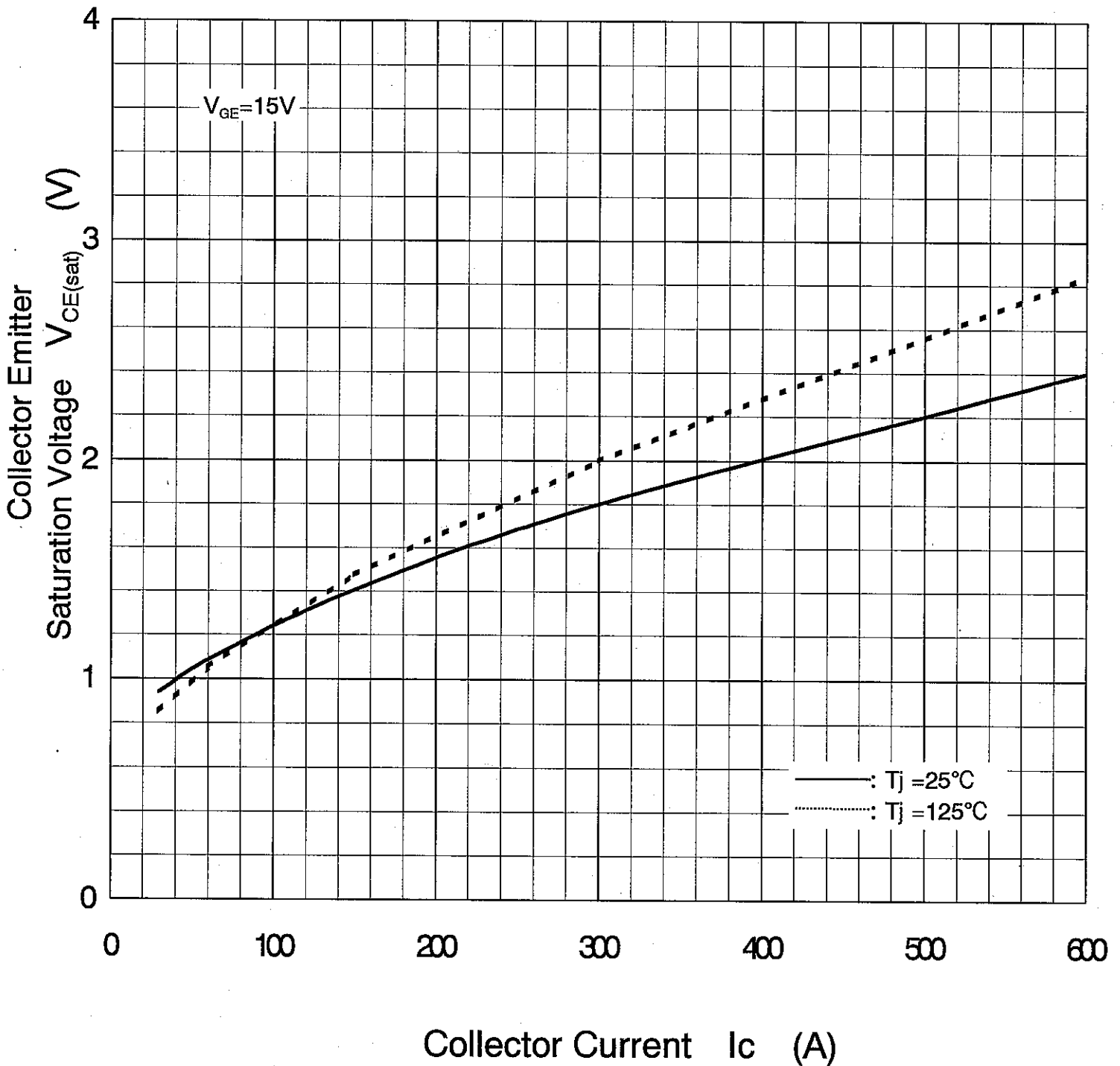
APPLICATION NOTE	Prepared by		Rev	
	Approved by			

Output Characteristics (Typical) CM300DY-24NF



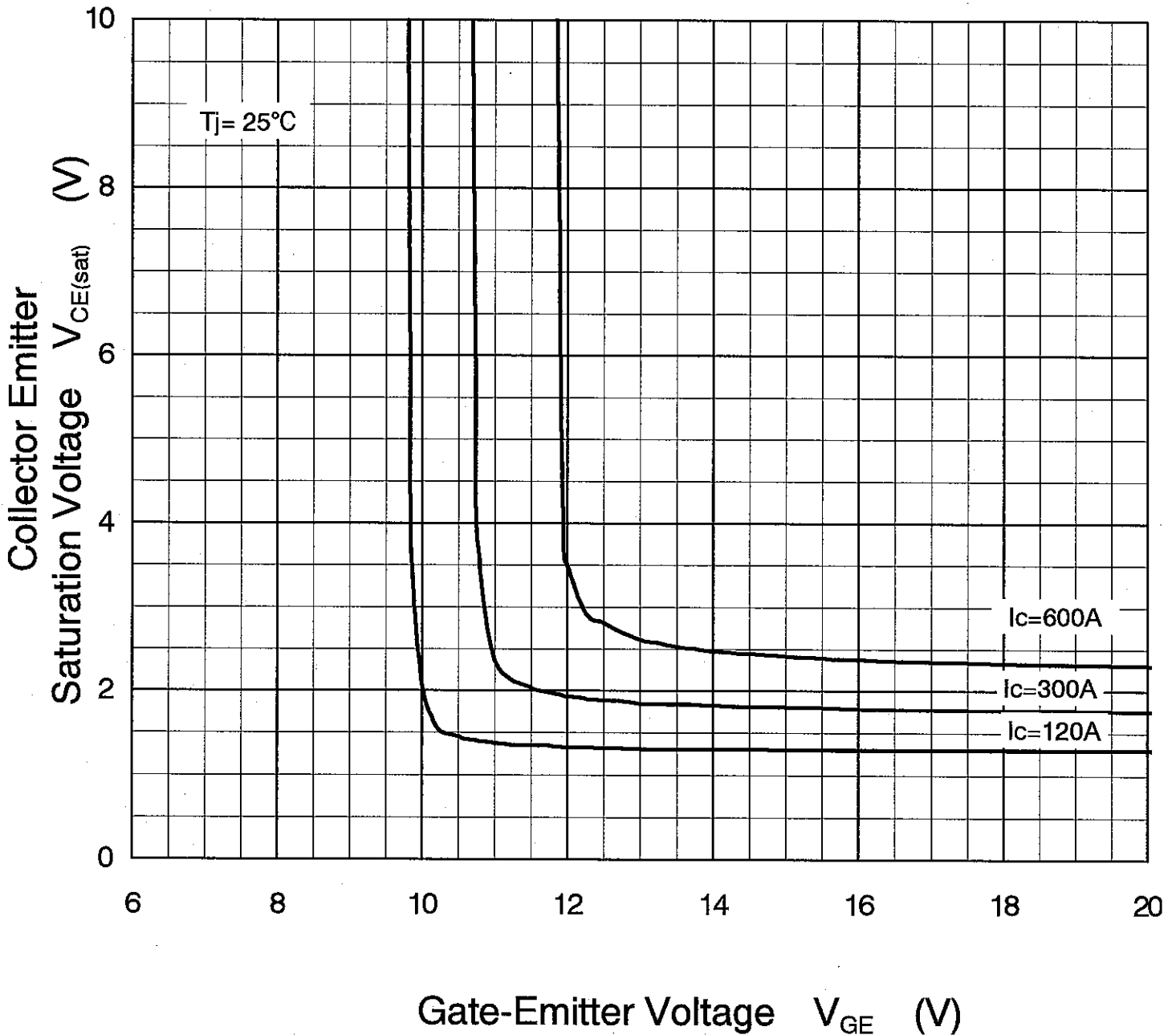
APPLICATION NOTE	Prepared by		Rev	
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Collector-Emitter Saturation Voltage Characteristics (Typical) CM300DY-24NF



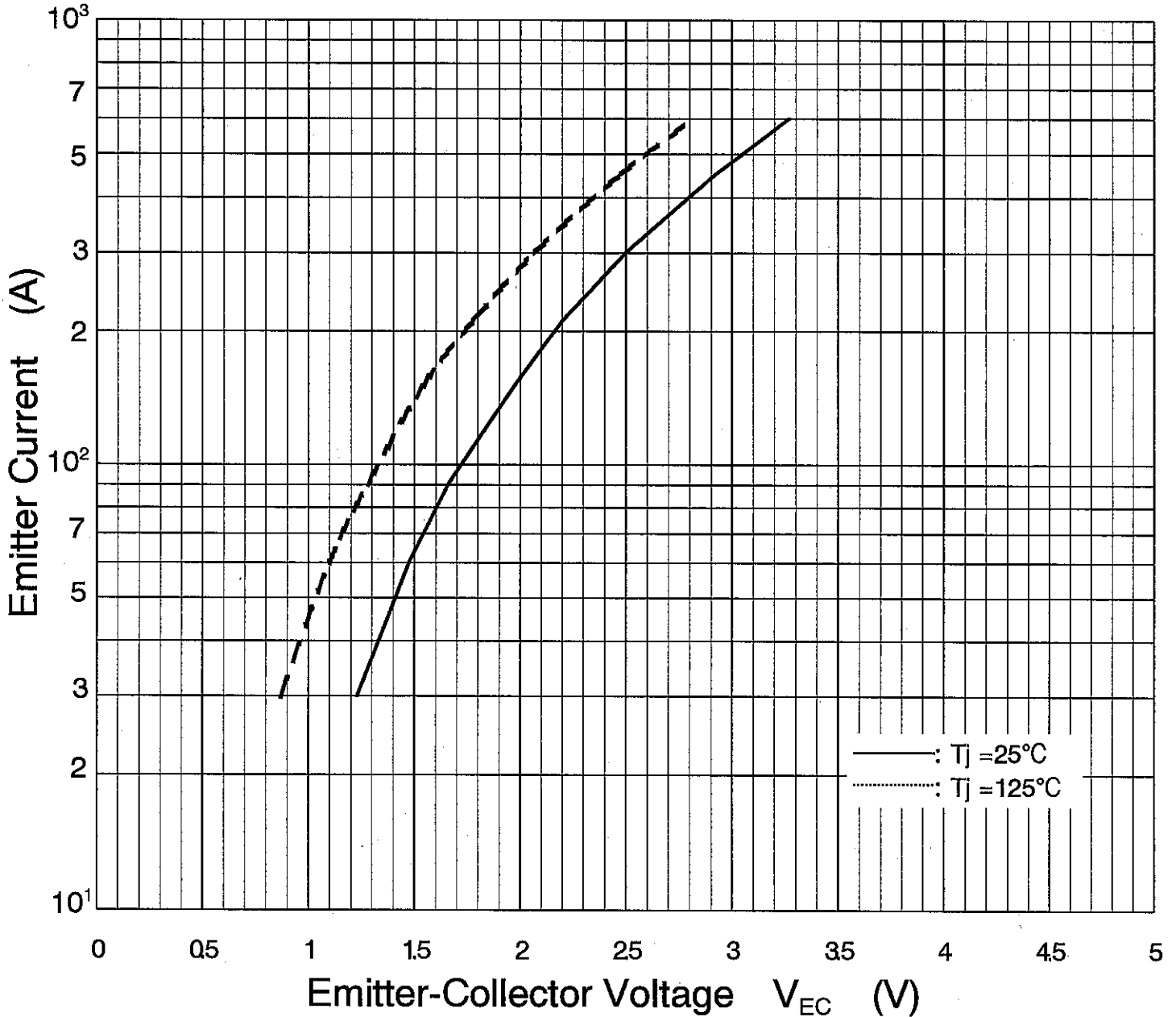
APPLICATION NOTE	Prepared by		Rev	
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Collector-Emitter Saturation Voltage Characteristics (Typical) CM300DY-24NF



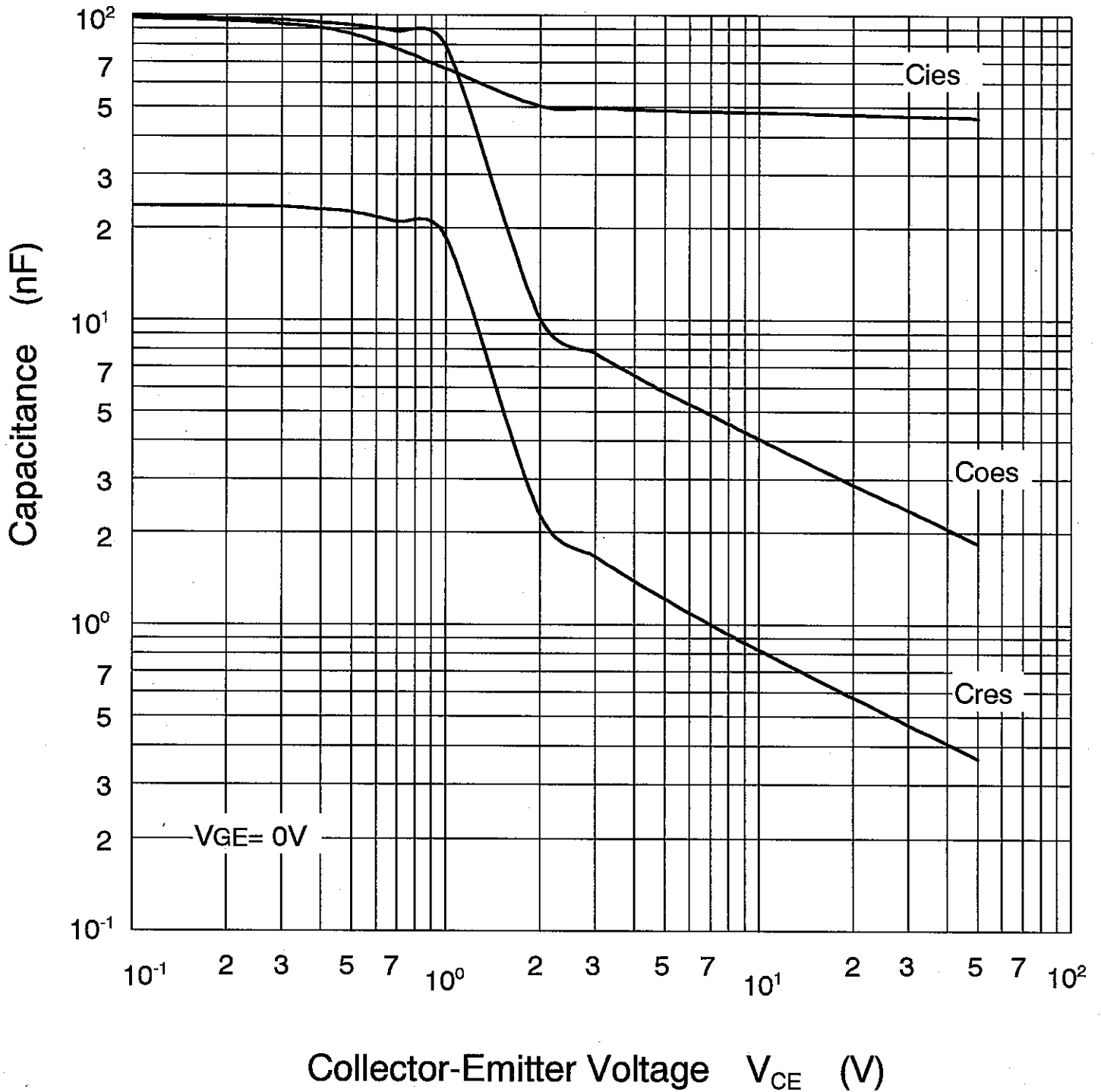
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	Approved by			

Free-Wheel Diode Forward Characteristics (typical) CM300DY-24NF



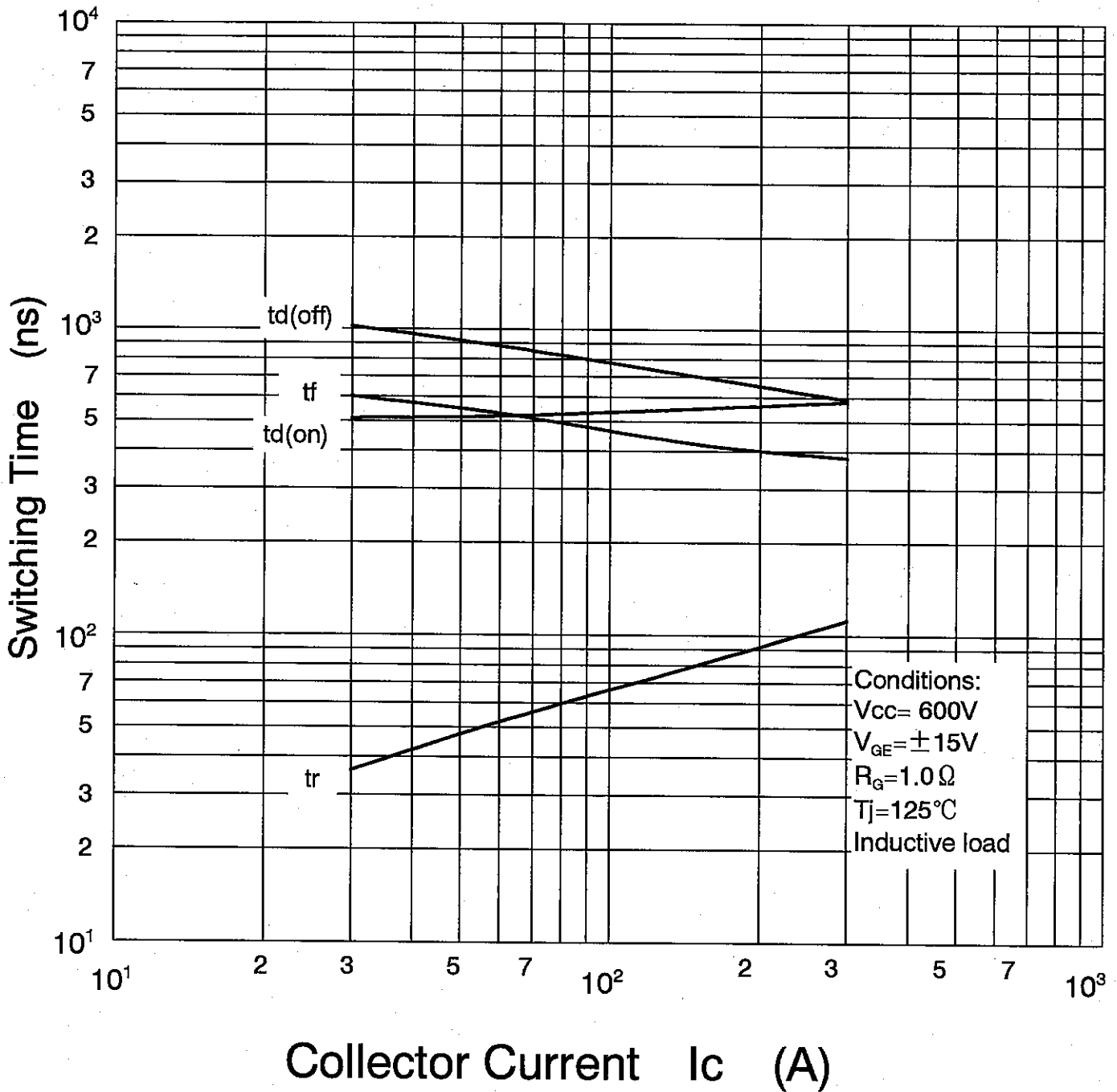
APPLICATION NOTE	Prepared by		Rev	
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Capacitance- V_{CE} Characteristics (typical) CM300DY-24NF



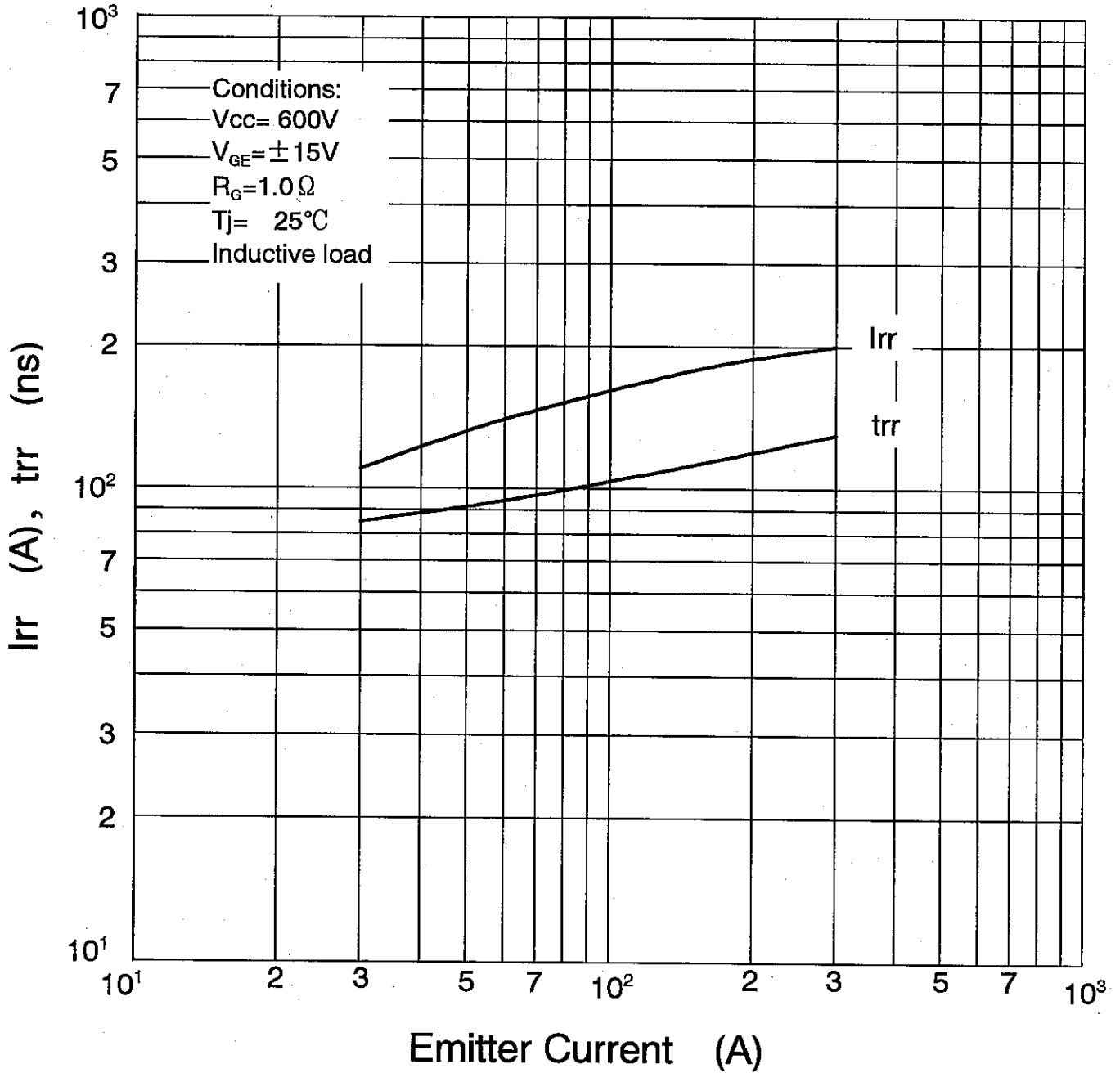
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	Approved by			

Half-Bridge Switching Characteristics (typical) CM300DY-24NF



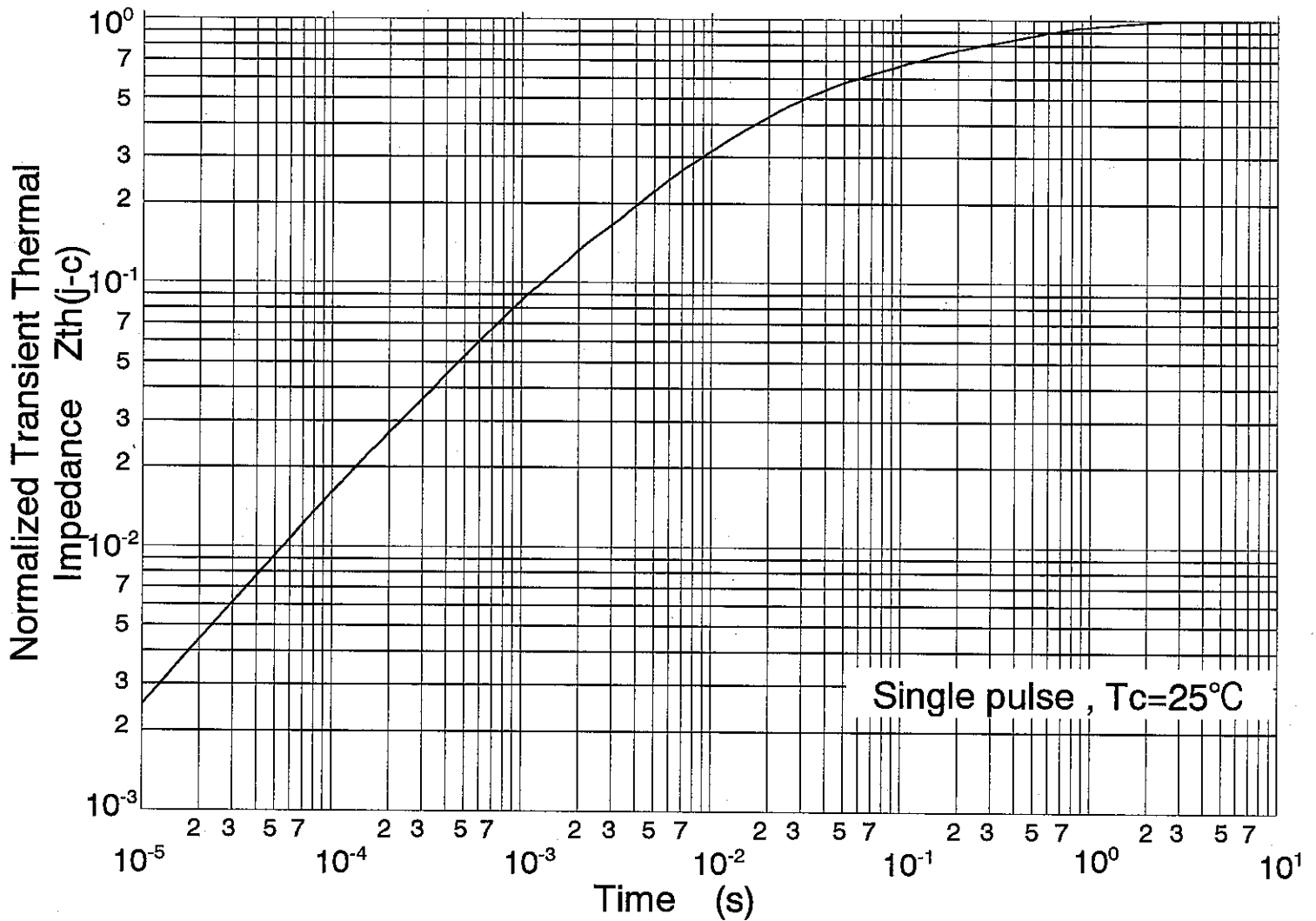
APPLICATION NOTE	Prepared by		Rev	
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Reverse Recovery Characteristics of Free-Wheel Diode (typical) CM300DY-24NF



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Transient Thermal Impedance Characteristics (IGBT part & FWD part) CM300DY-24NF



IGBT part :

Per unit base= $R_{th(j-c)}=0.11^{\circ}\text{C}/\text{W}$

FWD part :

Per unit base= $R_{th(j-c)}=0.18^{\circ}\text{C}/\text{W}$

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Gate Charge Characteristics
(typical)
CM300DY-24NF

