

# MITSUBISHI ELECTRIC CORPORATION

APPLICATION NOTE	Prepared by	H. Harada, T. Ozawa	Rev	
	Approved by	M. Yamamoto Nov. 8, 2002		

**主 題 (SUBJECT)**      PM50CLA/CLB060 特性データ ( Performance Curves )

**内 容 (CONTENTS)**

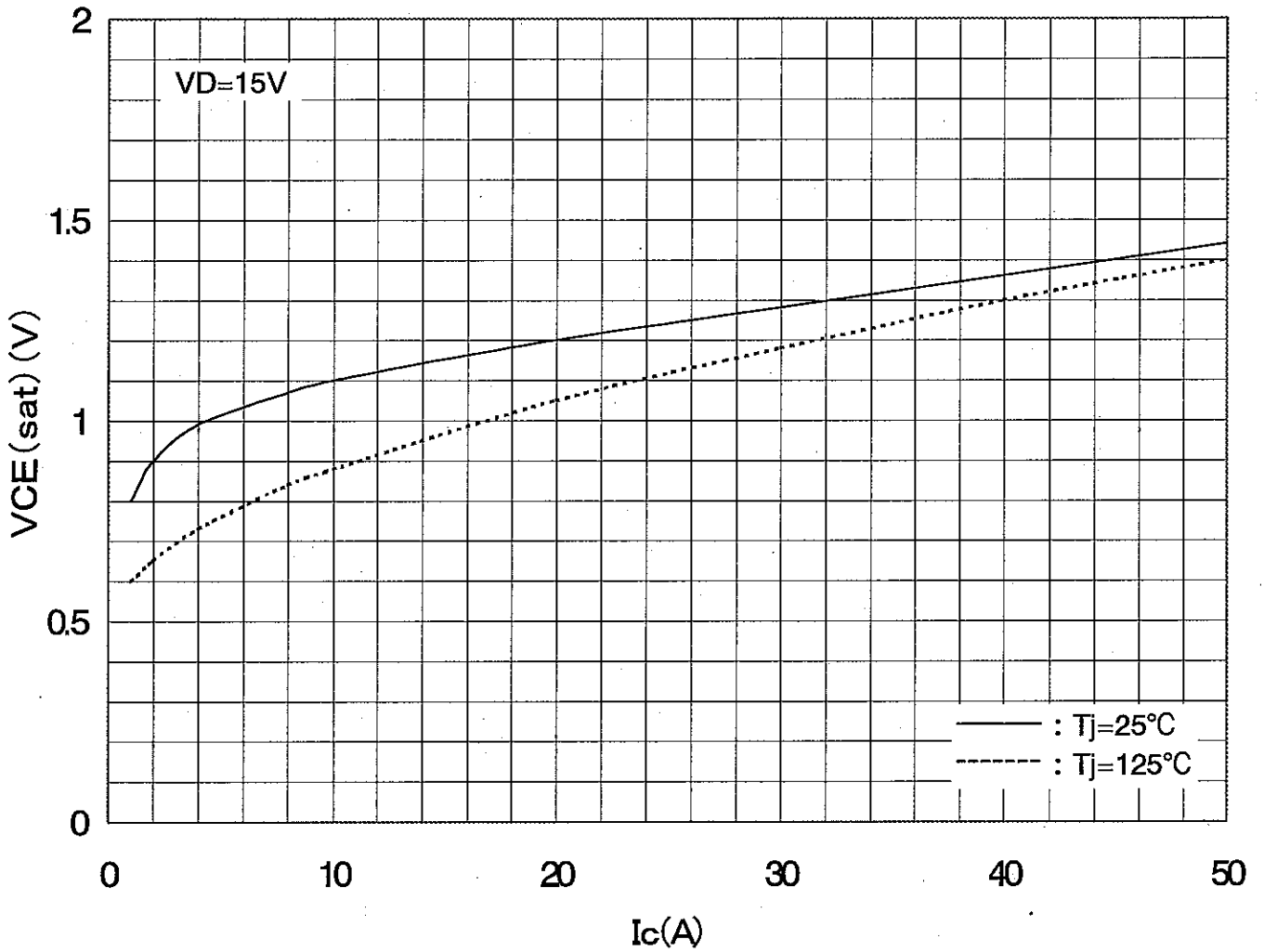
- 1. インバータ部 (Inverter Part)
- 1. インバータ部 (Inverter Part)
  - 1.1 コレクタ・エミッタ間飽和電圧特性 T<sub>j</sub>=25/125°C  
 (Collector-Emitter Saturation Voltage (V<sub>S</sub>, I<sub>C</sub>) Characteristics)
  - 1.2 スイッチング損失特性 T<sub>j</sub>=25/125°C  
 (Switching Loss Characteristics)
  - 1.3 ダイオード部順方向特性 T<sub>j</sub>=25/125°C  
 (FWDi Forward Voltage Characteristics)
  - 1.4 ダイオード部逆回復特性 ( I<sub>rr</sub>, t<sub>rr</sub> VS. - I<sub>C</sub> ) T<sub>j</sub>=25/125°C  
 (FWDi Reverse Recovery Characteristics)
- 2. 過渡熱インピーダンス特性 (Transient Thermal Impedance Characteristics)
  - 2.1 インバータ部 (Inverter Part)

MITSUBISHI ELECTRIC CORPORATION

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PM50CLA/CLB060

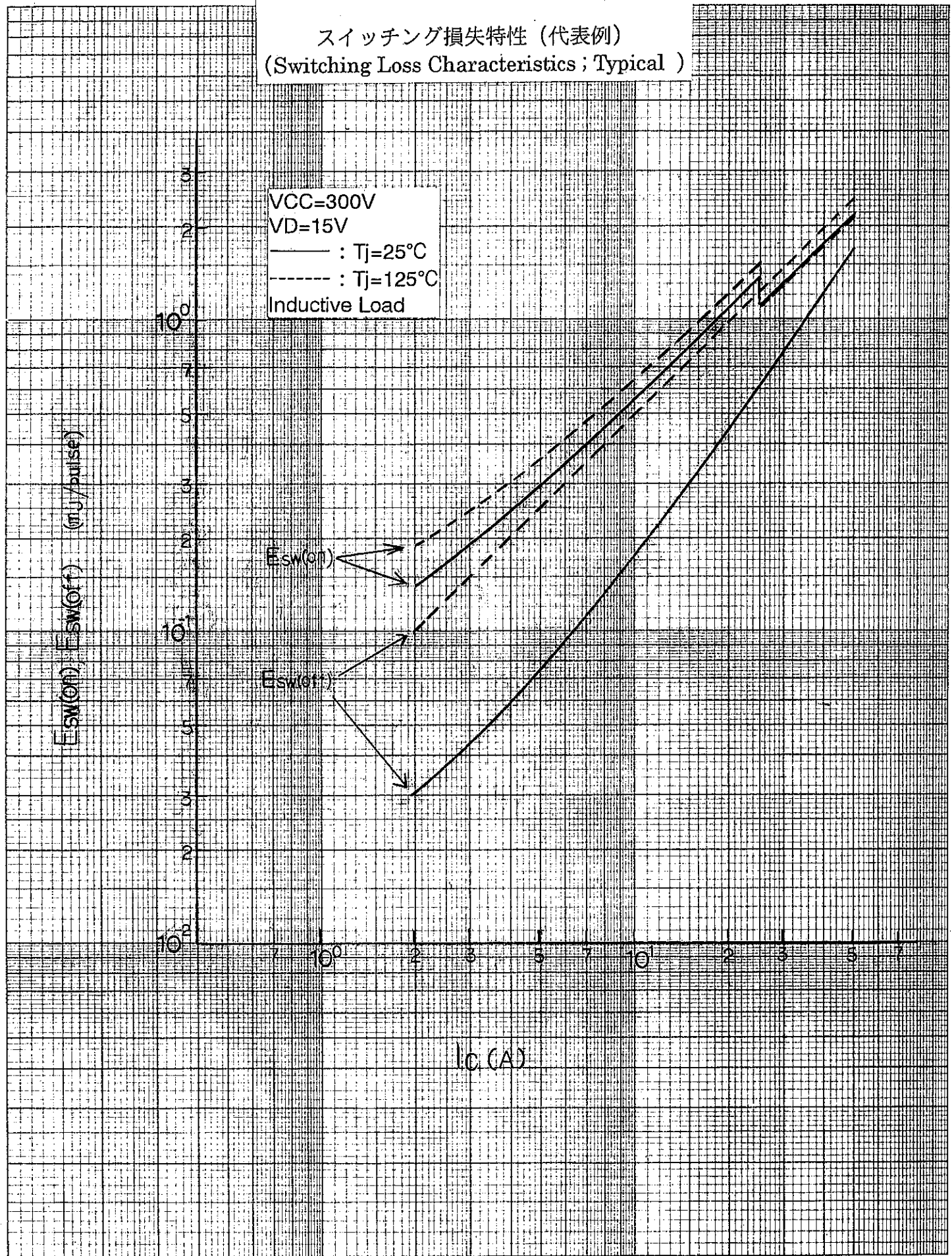
コレクタ・エミッタ間飽和電圧特性 (インバータ部・代表例)  
 (Collector-Emitter Saturation Voltage (VS. Ic) Characteristics ;  
 ( Inverter Part ) Typical )



# MITSUBISHI ELECTRIC CORPORATION

## PM50CLA/CLB060

スイッチング損失特性 (代表例)  
(Switching Loss Characteristics ; Typical )

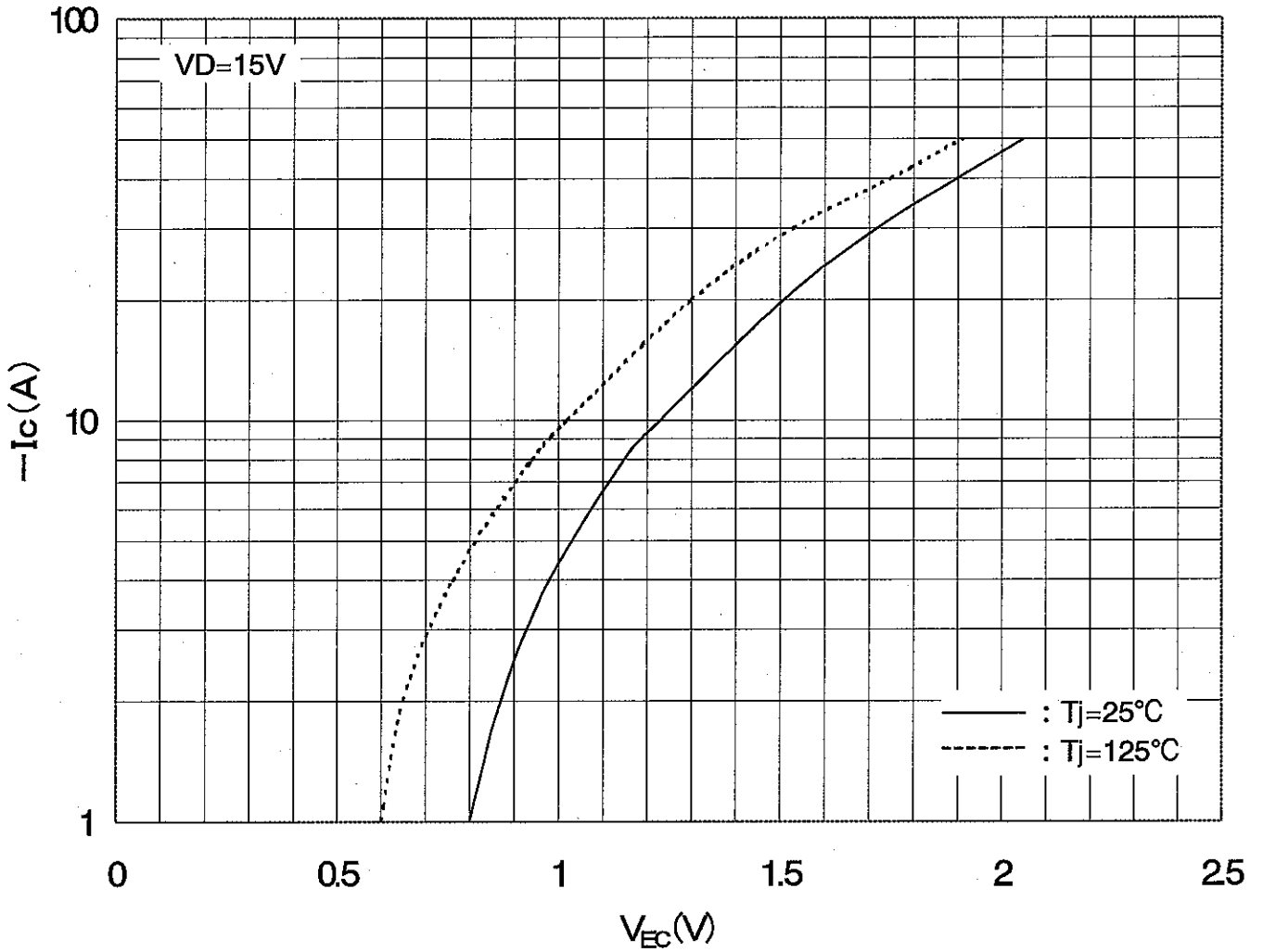


CMH-5126  
(3/6)

APPLICATION NOTE	Prepared by		Rev	
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PM50CLA/CLB060

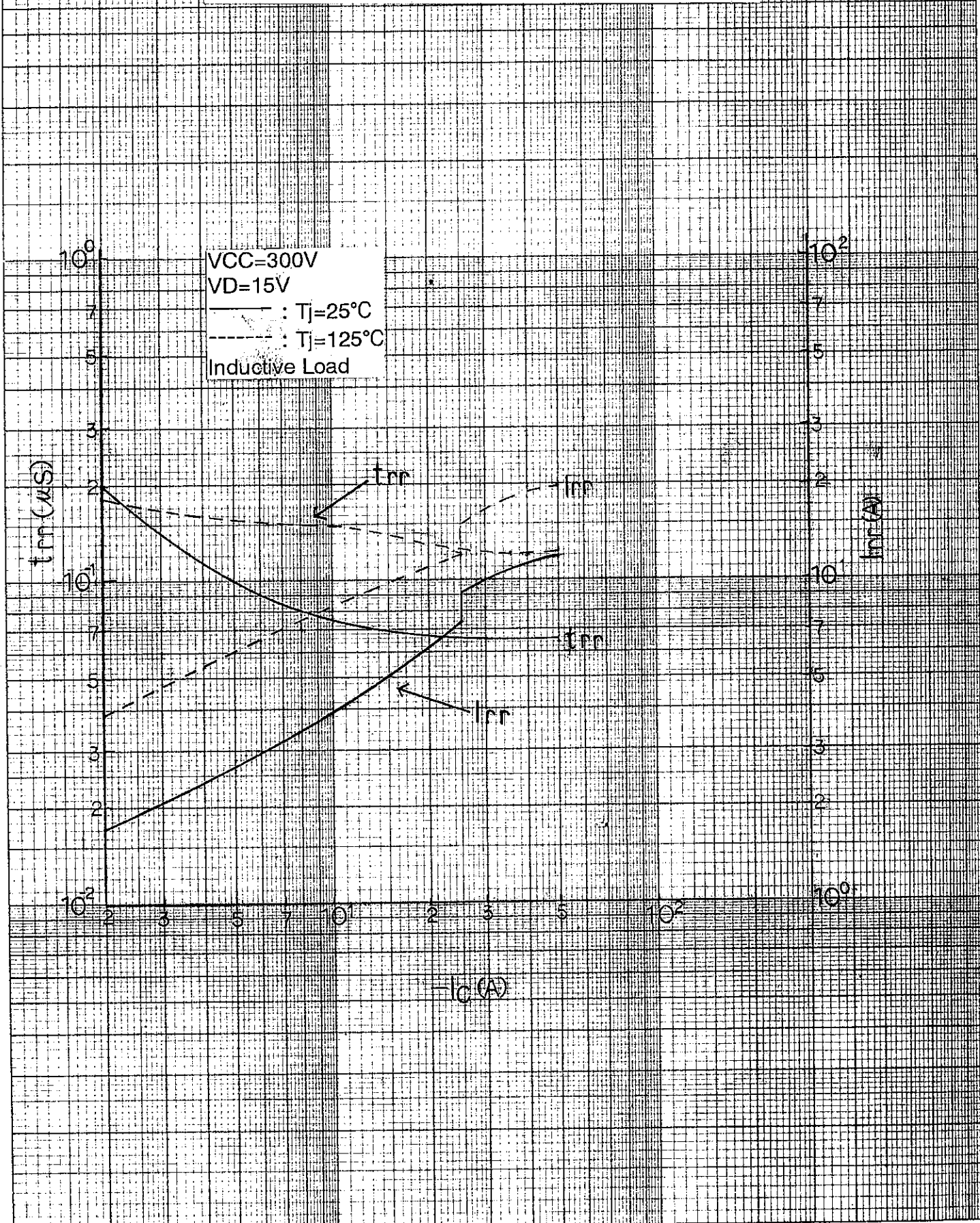
ダイオード部順方向特性 (インバータ部・代表例)  
 ( FWDi Forward Voltage Characteristics ; ( Inverter Part ) Typical )



# MITSUBISHI ELECTRIC CORPORATION

## PM50CLA/CLB060

ダイオード部逆回復特性 (代表例)  
( FWDi Reverse Recovery Characteristics ; Typical )



CMH-5126  
(5/6)

MITSUBISHI ELECTRIC CORPORATION

APPLICATION NOTE	Prepared by		Rev	
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2. PM50CLA/CLB060 過渡熱インピーダンス特性  
(Transient Thermal Impedance Characteristics)

2.1 インバータ部 過渡熱抵抗特性  
Inverter Part (Single Pulse)

IGBT部 (IGBT Part) ; 基準値 =  $R_{th(j-c)Q} = 1.24 \text{ } ^\circ\text{C/W}$   
 FWDi部 (FWDi Part) ; 基準値 =  $R_{th(j-c)F} = 2.09 \text{ } ^\circ\text{C/W}$

(Tcは側面)

