



● IGBT-inverter

Characteristic Values

Parameter	Symbol	Conditions	Value			Unit	
			Min.	Typ.	Max.		
$I_{HDM} / I_{CMNC} / I_{GB}$	I_{HDM}	$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				1	
$I_{OM} / I_{HDM} / I_{PO} / I_{PMIO}$		$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				H	
$I_{OM} / I_{HDM} / I_{PMIO} / I_{GB}$	I_{NO}	$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				1	
		$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$					
		$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$					
I_{CNB}						P	
I_{PO} / I_{DI}	I_{DN}	$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				I_{\square}	
$-I_{QMN} / I_{MINAM} / I_{DI}$	I_{MN}	$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				I_{\square}	
$I_{HDM} / I_{MGFB} / I_{PMIO}$		$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				I	
$I_{PMI} / I_{GT} / I_{DI}$	I_{OI}	$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				IN	
$-I_{DI} / I_{DI}$	I_{QI}					IN	
$I_{PM} / I_{GT} / I_{DI}$	I_{OA}		1	1		IN	
I_{GD} / I_{DI}	I_{Q}		1	1		IN	
$I_{NBT} / I_{DND} / I_{DI} / I_{PMB}$	I_{I}					H	
$I_{NBT} / I_{DND} / I_{DI} / I_{PMB}$	I_{A}					H	
$I_{PMI} / I_{GT} / I_{DI}$	I_{OI}					IN	
$-I_{DI} / I_{DI}$	I_{QI}					IN	
$I_{PM} / I_{GT} / I_{DI}$	I_{OA}		1	1		IN	
I_{GD} / I_{DI}	I_{Q}		1	1		IN	
$I_{NBT} / I_{DND} / I_{DI} / I_{PMB}$	I_{I}					H	
$I_{NBT} / I_{DND} / I_{DI} / I_{PMB}$	I_{A}					H	
$I_{HDM} / I_{CMNC} / I_{GB}$			$V_{HDM} / V_{CE} \text{ } ^\circ\text{C}$				



● **IGBT-brake-chopper**
Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
I_{OHM} / I_{OH}	1	$V_{CE} = V_{CE0} / T_{CH} = 100^{\circ}C$		1
I_{OPN} / I_{OP}		$T_{CH} = 100^{\circ}C$		
$I_{OH} + I_{OP}$	-	ON		
V_{CE0}	1	$T_{CH} = 100^{\circ}C$	\pm	1
I_{OH} / I_{OP}	+00	$T_{CH} = 100^{\circ}C$		2

Characteristic Values

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
V_{CE0} / V_{CE}	1	$V_{CE0} / T_{CH} = 100^{\circ}C$				1
V_{CE} / V_{CE0}		$V_{CE} / T_{CH} = 100^{\circ}C$				H
V_{CE} / V_{CE0} V_{CE} / V_{CE0}	1	$V_{CE} / T_{CH} = 100^{\circ}C$				1
		$V_{CE} / T_{CH} = 100^{\circ}C$				
		$V_{CE} / T_{CH} = 100^{\circ}C$				
V_{CE}						P
I_{OP} / I_{OP}	DN	$V_{CE} = V_{CE0} / T_{CH} = 100^{\circ}C$				I
I_{OP} / I_{OP}	MN	$V_{CE} = V_{CE0} / T_{CH} = 100^{\circ}C$				I
V_{CE} / V_{CE0}		$V_{CE} / T_{CH} = 100^{\circ}C$				I
V_{CE} / V_{CE0}	O					IN
V_{CE} / V_{CE0}	Q					IN
V_{CE} / V_{CE0}	O	$V_{CE} = V_{CE0} / T_{CH} = 100^{\circ}C$				IN
V_{CE} / V_{CE0}	Q					IN
V_{CE} / V_{CE0}	I	$V_{CE} = V_{CE0} / T_{CH} = 100^{\circ}C$				H
V_{CE} / V_{CE0}	A					H



MG35P12P3

RoHS
COMPLIANT

/PM I GT/DH	O I					IN
- DI / DH	Q					IN
/PM A GT/DH	O A	1	1			IN
□ G DH	Q	1	1			IN
I NBT DND DI PNB /PM I / DH	I	-	°C			H
I NBT DND DI PNB /PM A / DH	A					



● Diode-rectifier

Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
V_{RM} (Reverse Voltage)	V_{RM}	$I_{FM} = 0$		V
V_{SM} (Surge Voltage)	V_{SM}	$I_{FM} = 0$		V
V_{SM} (Surge Voltage)	V_{SM}	$I_{FM} = 0$		V
I_{FM} (Forward Current)	I_{FM}	$T_C = 25^\circ\text{C}$		A
		$T_C = 100^\circ\text{C}$		A
I_{SM} (Surge Current)	I_{SM}	$T_C = 25^\circ\text{C}$		A

Characteristic Values

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
r_{FM} (Forward Resistance)	r_{FM}	$V_{FM} = 10\text{V}$				Ω
r_{SM} (Surge Resistance)	r_{SM}	$V_{SM} = 10\text{V}$				Ω

● NTC-Thermistor

Characteristic values

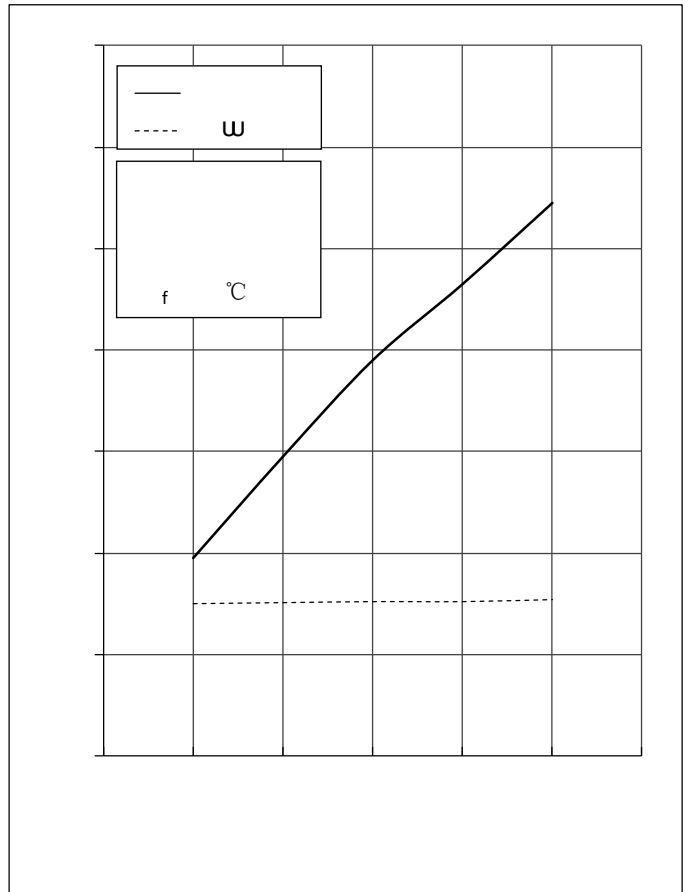
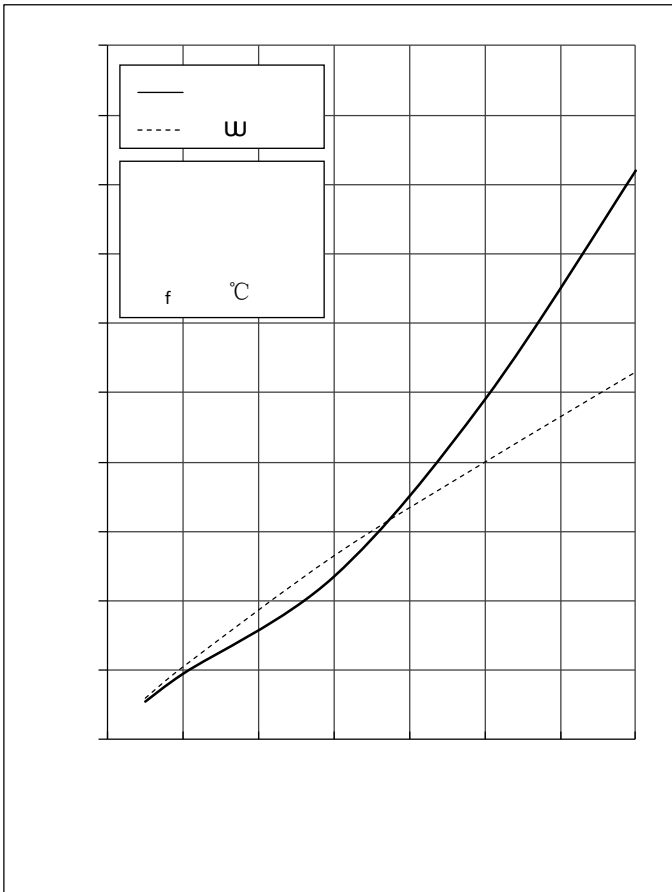
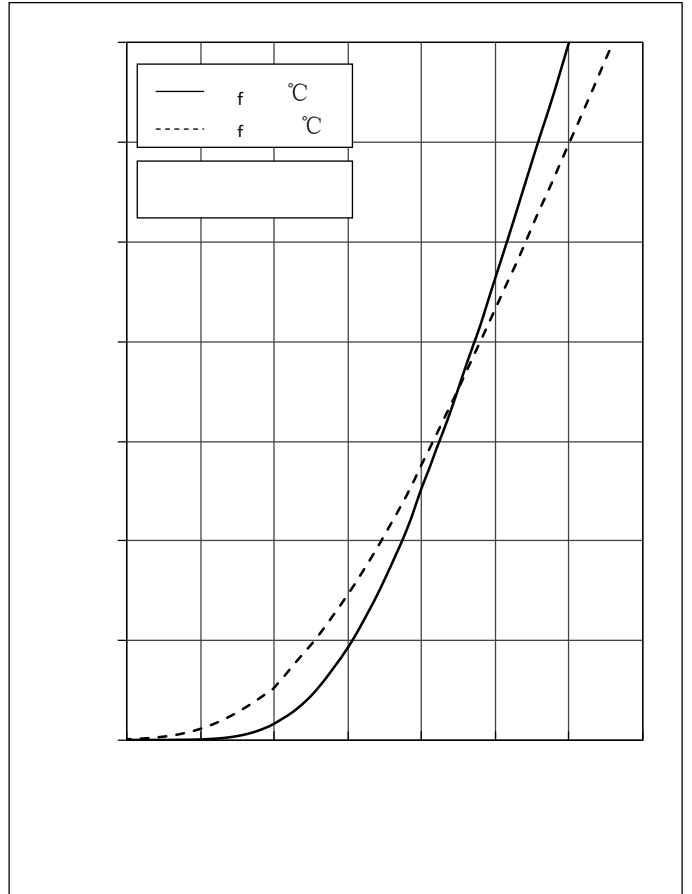
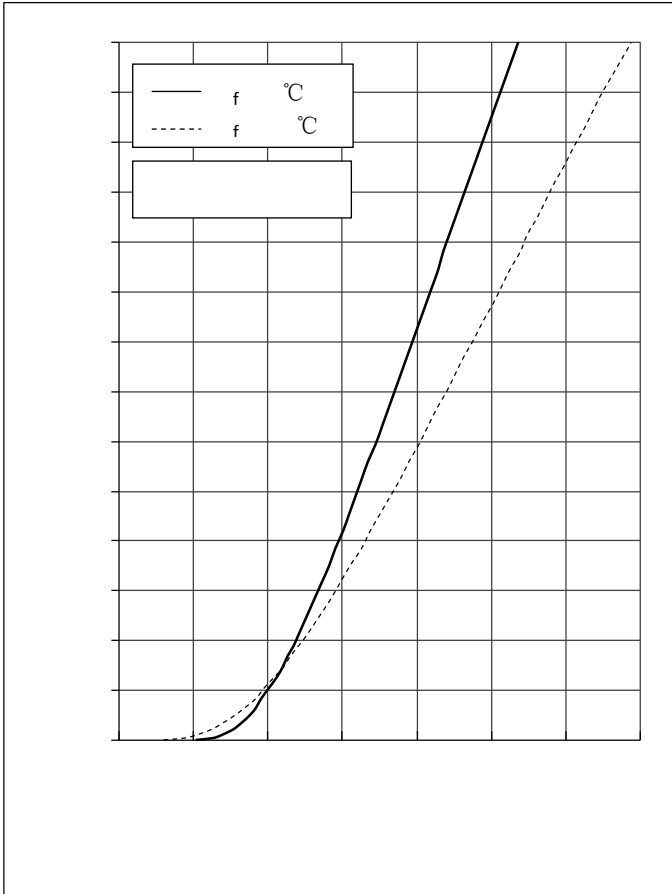
Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
R_{25} (Resistance at 25°C)	R_{25}	$T = 25^\circ\text{C}$				Ω
R_{100} (Resistance at 100°C)	R_{100}	$T = 100^\circ\text{C}$				Ω
$B_{25/100}$ (B-constant)	$B_{25/100}$					K
α_{25} (Temperature Coefficient of Resistance)	α_{25}	$T = 25^\circ\text{C}$				$\%/^\circ\text{C}$

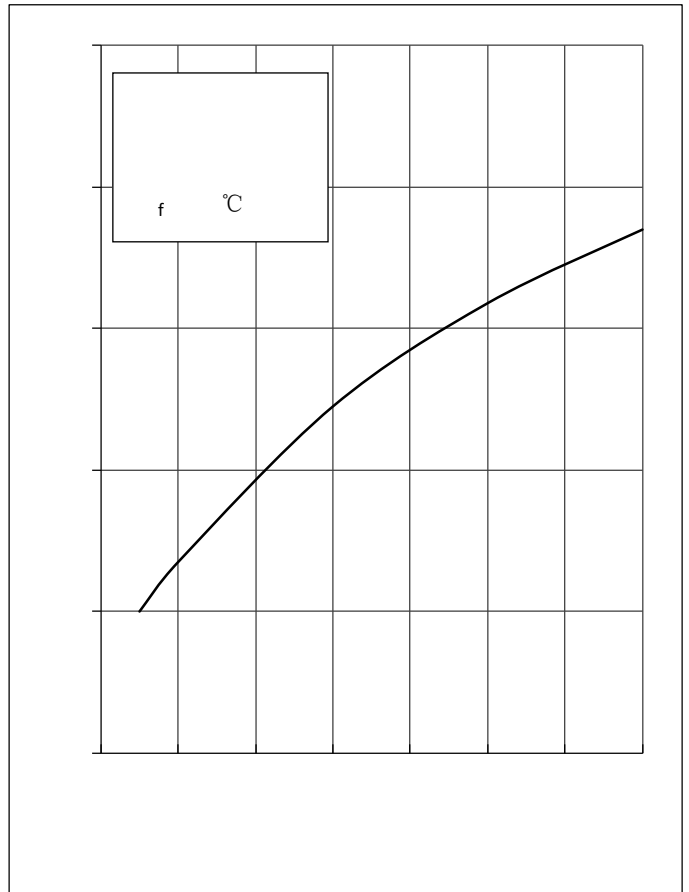
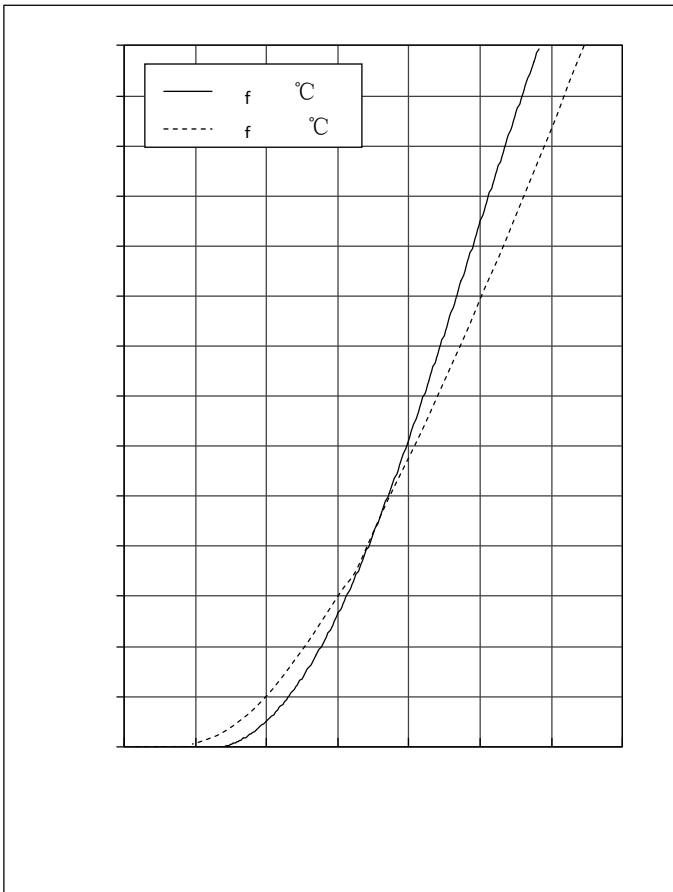
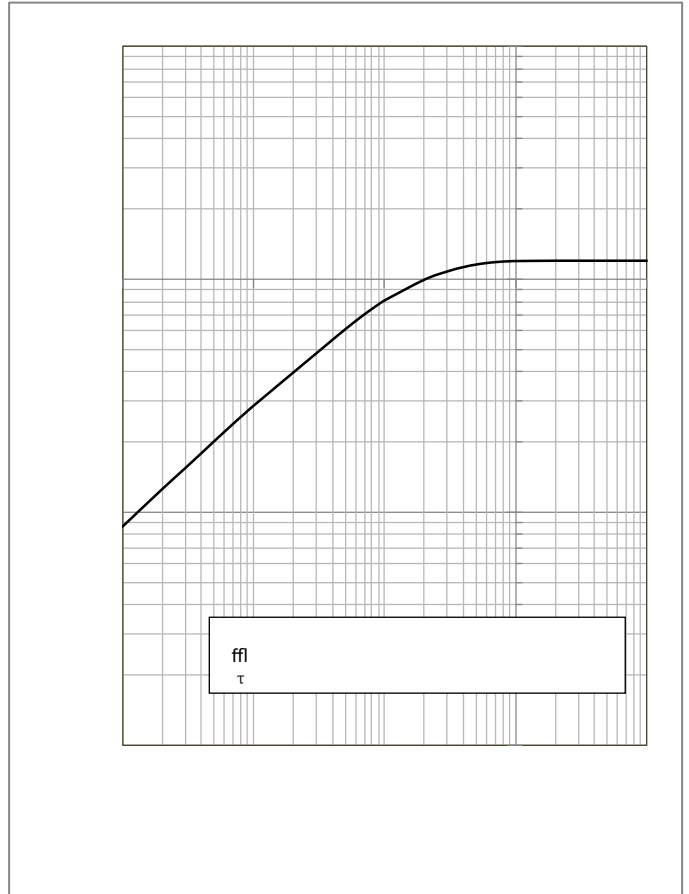
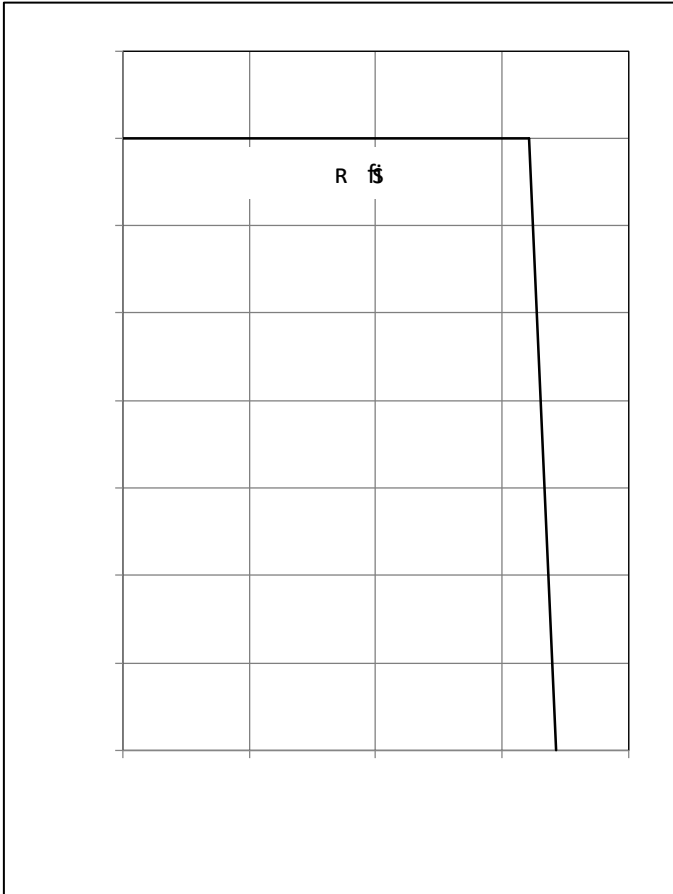


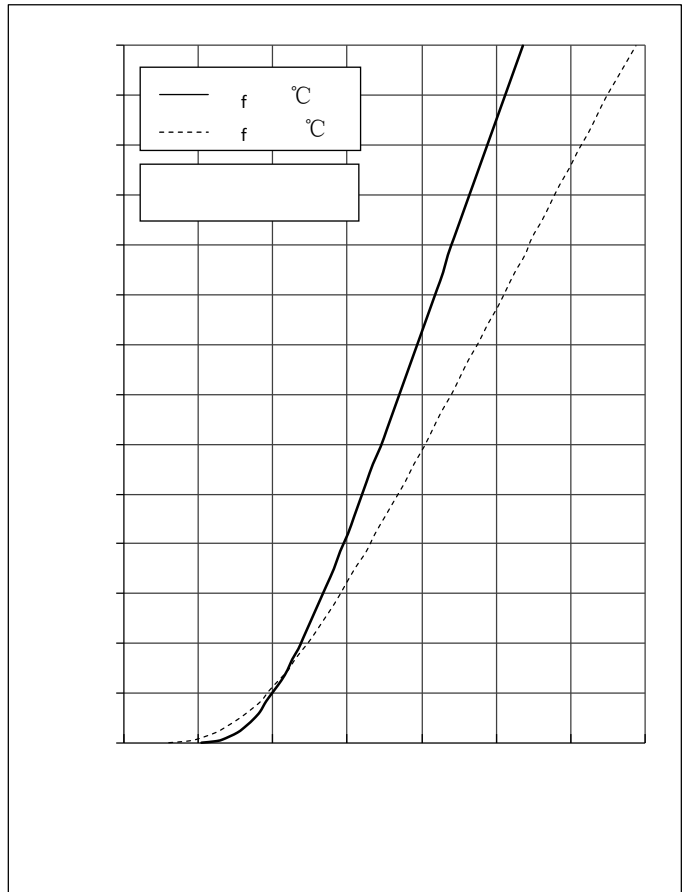
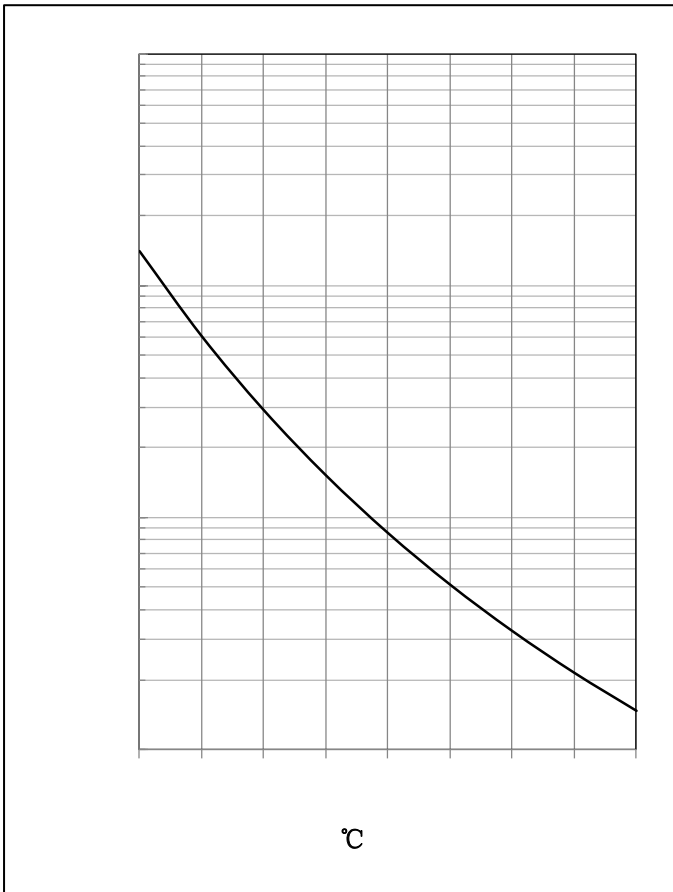
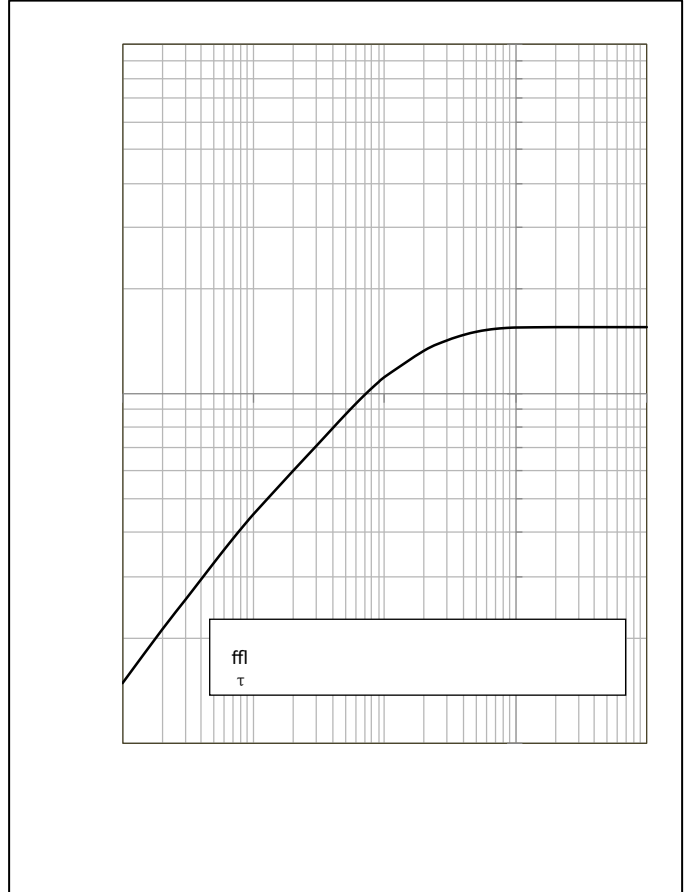
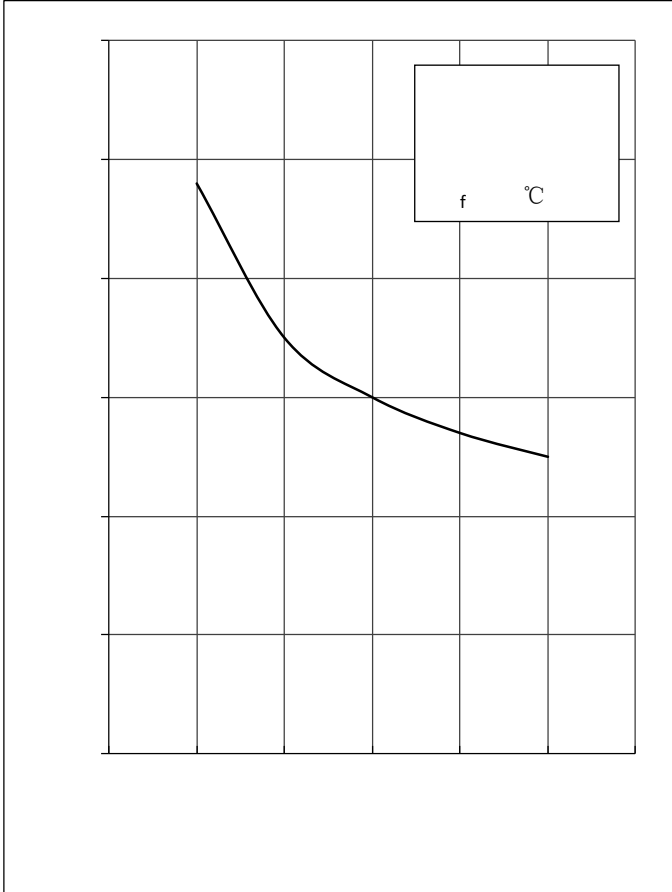
● Module Characteristics

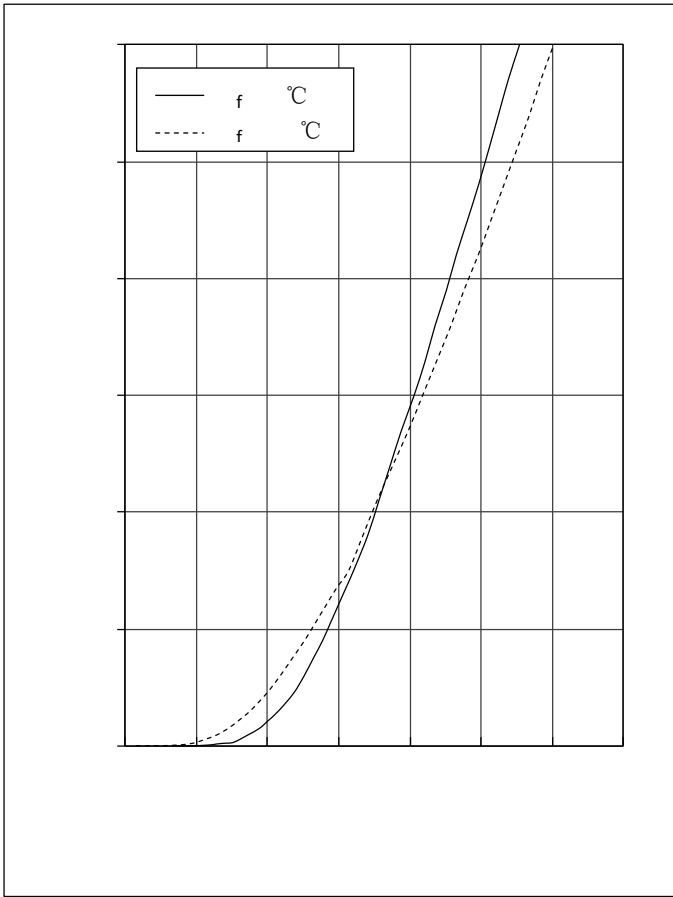
T_c=25°C unless otherwise specified

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
N GDI Q GB	1 DG	O HDA U				1
(SBPH PI DI / H MPM	/HS					°C
MDB PI DI / H MPM	/E					°C
.OMB / H MPM	/NB					°C
.MTD P OI H PG						nH
(PGG MNDI ONHD G CD	- -	/ °C MRDC				m
/C M G NDI PI DI O N	-	M / DQ M				&2
		M D DQ M				
		M / =MF C M				
		M D C M				
		M D M M				
/C M G NDI N O . DF	-	M / DQ M				&2
		M D DQ M				
		M / =MF C M				
		M D C M				
		M D M M				
		M(PG				
(PI DB M + M GH	□)
2 BCO A(PG						B



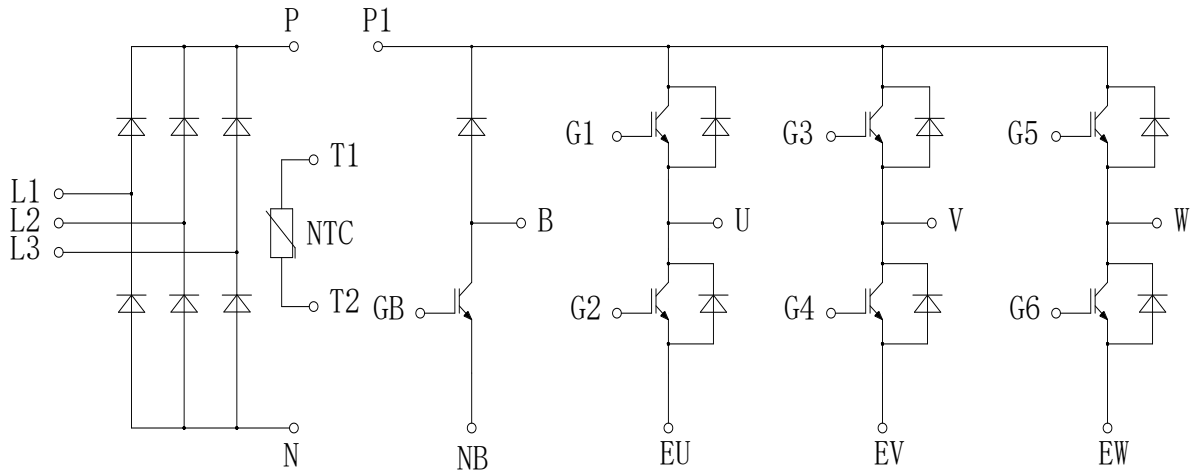




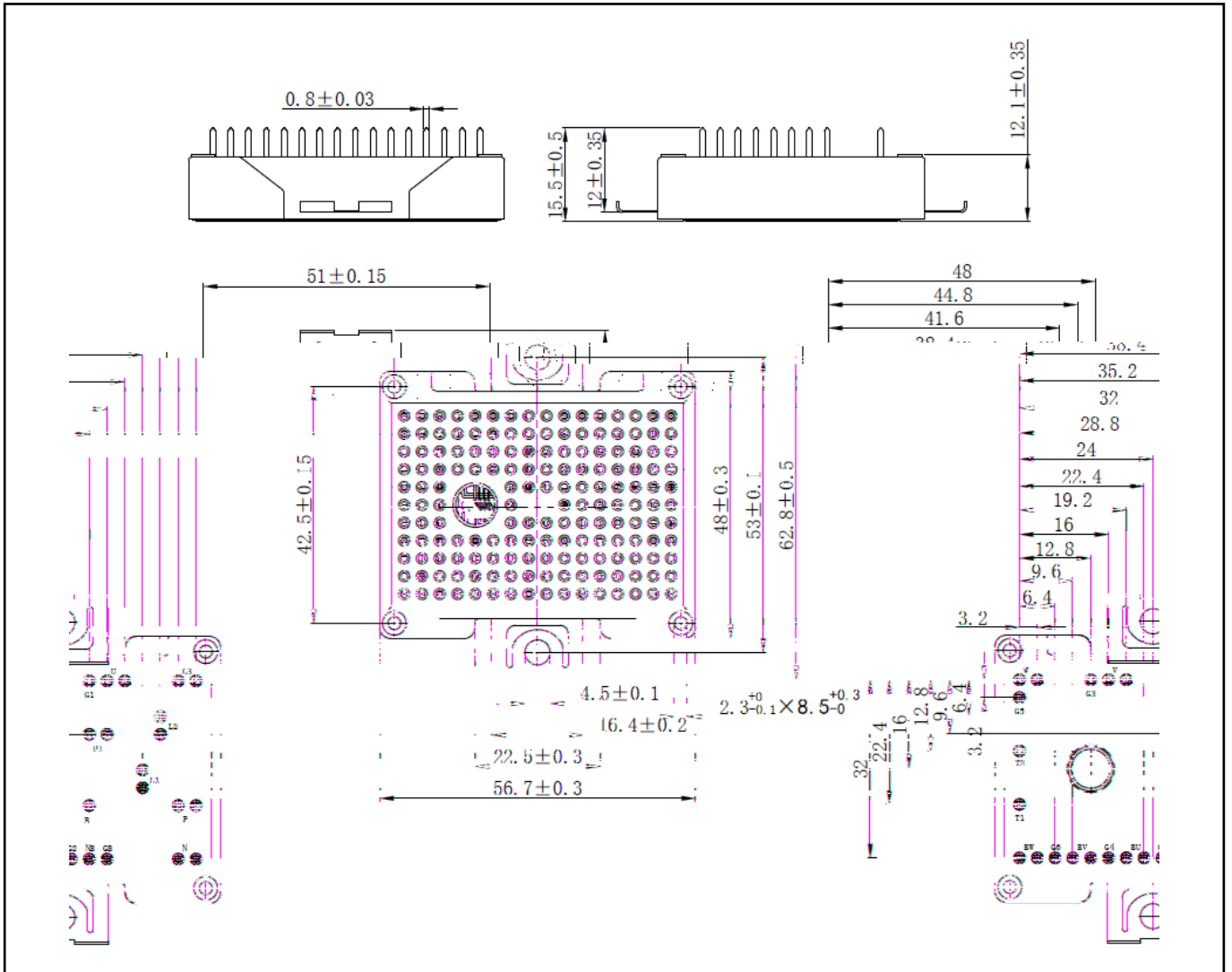




Circuit Diagram



● Package Dimensions





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