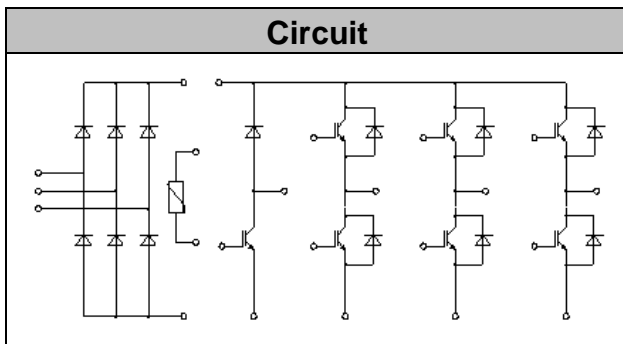


IGBT Modules

V_{CE} 1
I_C

Applications

- (OM N M)
- I . N N H M
- 0+. 0 I D M P G + R M P G N



Features

- R N R D C D B G N N
- R 1 N O R D N O H M P M A D D I O
- I G D B A N O N A C M Q M I D M G G 2
- R D P O I N
- B C N C M D M P D = 0.5 P N
- N G O C O D F P N D B O C I G B T
- (S D I P H E P I D I O H M P M ° C

IGBT-inverter

Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
V _{CE} (H _{DM}) _{GB}	1	1 1 H / °C		1
I _{CP} FN (H _{DM}) _{PMIO}		/ °C, T _{CH} s = °C		
- (+ F (H _{DM}) _{PMIO}	- (0 HN		
O H _{DM} GB	1	/ °C	±	1
/ O G + R M D N D I	+00	/ °C / °C s		2

IGBT- inverter

Characteristic values

Parameter	Symbol	Conditions	Value			Unit	
			Min.	Typ.	Max.		
$I_{HDM} / CMNC$ G1 GB	I_{HDM}	1 1 H / °C				1	
I_{OM} / HDM PO A PMIO		1 11 1 / °C				H	
I_{OM} / HDM I_{PM} / I_{GH} GB	I_{NO}	1 1 / °C				1	
		1 1 / °C					
		1 1 / °C					
I_{CB}						P	
I_{PO} / DI	I_{DN}	1 11 1				I	
$-Q_{MI} / MINAM$ DI	I_{MN}	A (U / °C				I	
I_{HDM} / GFB PMIO		1 11 1 / °C				I	
$I_{PM} / I_{GT} / DI$	I_{OI}	1 1 1 1 - / °C				IN	
$-DI / DI$	I_{Qi}					IN	
$I_{PM} / A_{GT} / DI$	I_{OA}					IN	
I_{GH} / DI	I_{Q}					IN	
I_{NB} / DND DI PMDB I_{PM} / I_{GH}	I					H	
I_{NB} / DND DI PMDB $I_{PM} / A_{GT} / DI$	I_{A}					H	
$I_{PM} / I_{GT} / DI$	I_{OI}					IN	
$-DI / DI$	I_{Qi}					IN	
$I_{PM} / A_{GT} / DI$	I_{OA}					IN	
I_{GH} / DI	I_{Q}					IN	
I_{NB} / DND DI PMDB I_{PM} / I_{GH}	I					H	
I_{NB} / DND DI PMDB $I_{PM} / A_{GT} / DI$	I_{A}					H	
I_{O}			0 PN1 1 / °C 1 11 (1				



Diode-inverter

Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
- $I_{DM} + F - Q_{MI} 1 \text{ GB}$	$1_{-}()$	$/\text{CE } ^\circ\text{C}$		1
$I_{OP} \text{ PN } \square \text{ NR M PWMIO}$	\square			
- $I_{DM} + F \square \text{ NR M PWMIO}$	$\square_{-}()$	0 HN		
Q_{CE}	0	$1_{-} 1 0 \text{ HN}/\text{CE } ^\circ\text{C}$		N
		$1_{-} 1 0 \text{ HN}/\text{CE } ^\circ\text{C}$		

Characteristic Values

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
$\square \text{ NR M 1 GB}$	1_{\square}	$\square / \text{CE } ^\circ\text{C}$				1
		$\square / \text{CE } ^\circ\text{C}$				
		$\square / \text{CE } ^\circ\text{C}$				
- $Q_{M} C \text{ NB}$	$, \text{ MI}$	$1_{-} 1 \text{ D O PN}$				P
+ $F - Q_{MI} - Q_{MT} \text{ PWMIO}$	 MI					
- $Q_{MI} - Q_{MT} \text{ I NBT}$	 M		$/\text{CE } ^\circ\text{C}$			
- $Q_{M} C \text{ NB}$	$, \text{ MI}$	$1_{-} 1 \text{ D O PN}$				P
+ $F - Q_{MI} - Q_{MT} \text{ PWMIO}$	 MI					
- $Q_{MI} - Q_{MT} \text{ I NBT}$	 M		$/\text{CE } ^\circ\text{C}$			

/PM I GT/DH	O I				IN
- DI /DH	QI				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	/CE °C			H
I NBT DND DI PNB /PM A/DH	A				H
. O		0 PN1	1/CE °C		
		1 11	(1		

Diode-brake-chopper

Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
- □ + F- QMI 1 GB	1--(/CE °C		1
I DP FN □ NR M PWIO	□			
- □ + F □ NR M PWIO	□-(0 HN		
□ □	O	1. 10 HN/CE °C		N
		1. 10 HN/CE °C		

Characteristic Values

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
□ NR M 1 GB	1 □	□ /CE °C				1
		□ /CE °C				
		□ /CE °C				
- QM C NB	, IMI	□				P
+ F- QMI - QM PWIO	MI	1. 1 D O PN				
- QMI - QM I NBT	M	/CE °C				H
- QM C NB	, IMI	□				P
+ F- QMI - QM PWIO	MI	1. 1 D O PN				
- QMI - QM I NBT	M	/CE °C				H



Diode-rectifier

Absolute Maximum Ratings

Parameter	Symbol	Conditions	Value	Unit
- I_{FM} + F- Q M1 1 GB	I_{FM}	/ $^{\circ}C$		1
Q MB POPO P M1 O U N D R Q	I_{RM}	/ $^{\circ}C$		
(S D1 P H - (. P M1 O O - I_{SM} POPO	I_{SM}	/ $^{\circ}C$		
. P M1 I_{RM} P M1 O	I_{RM}	1. 1 O HN/ $^{\circ}C$		
Q Q I_{RM}	I_{RM}	1. 1 O HN/ $^{\circ}C$		N

Characteristic Values

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
D I_{RM} M1 GB	I_{RM}	/ $^{\circ}C$				1
- Q M1 P M1 O	-	/ $^{\circ}C$ 1. 1				H

NTC-Thermistor

Characteristic Values

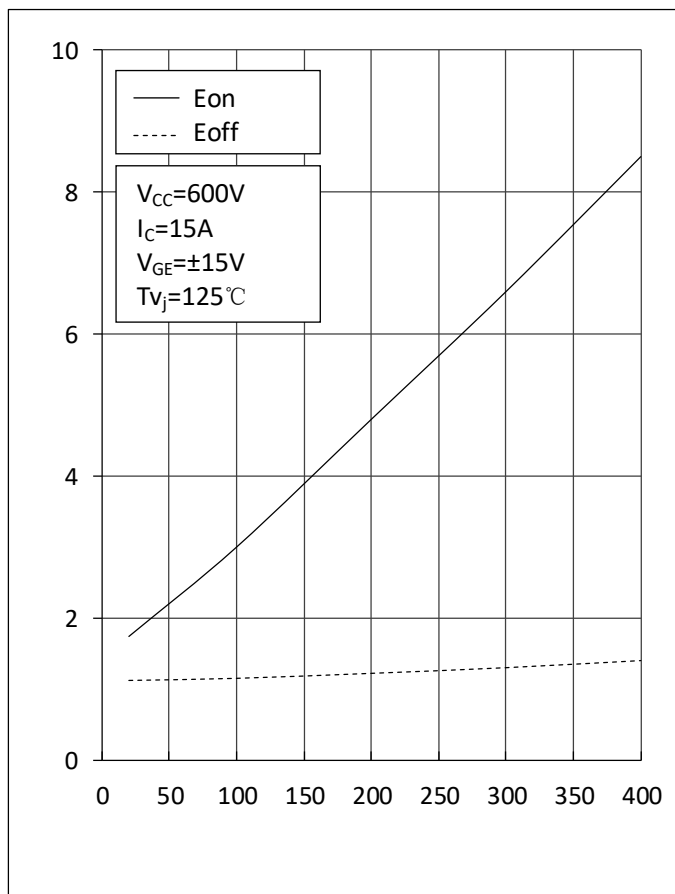
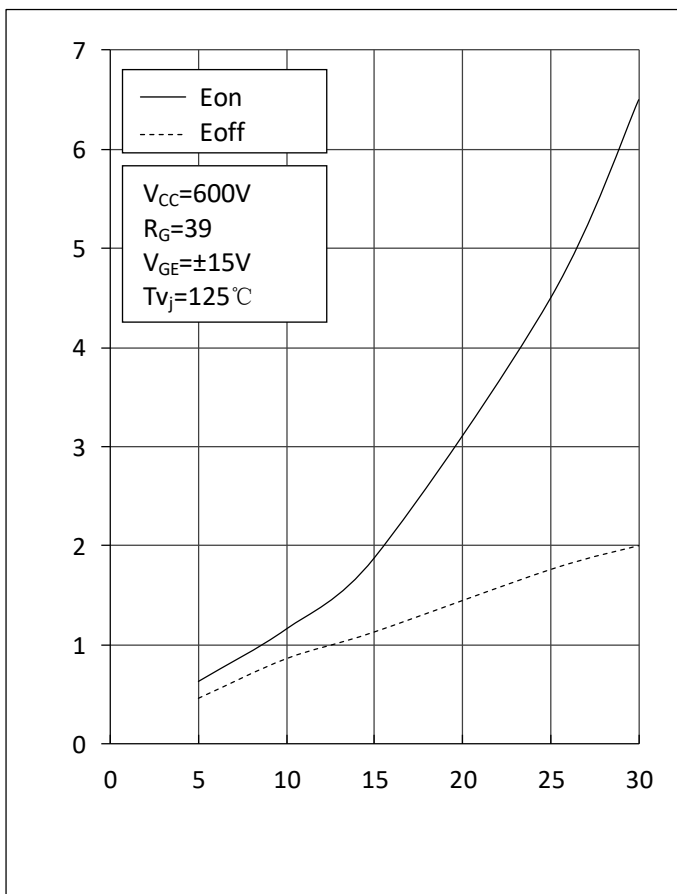
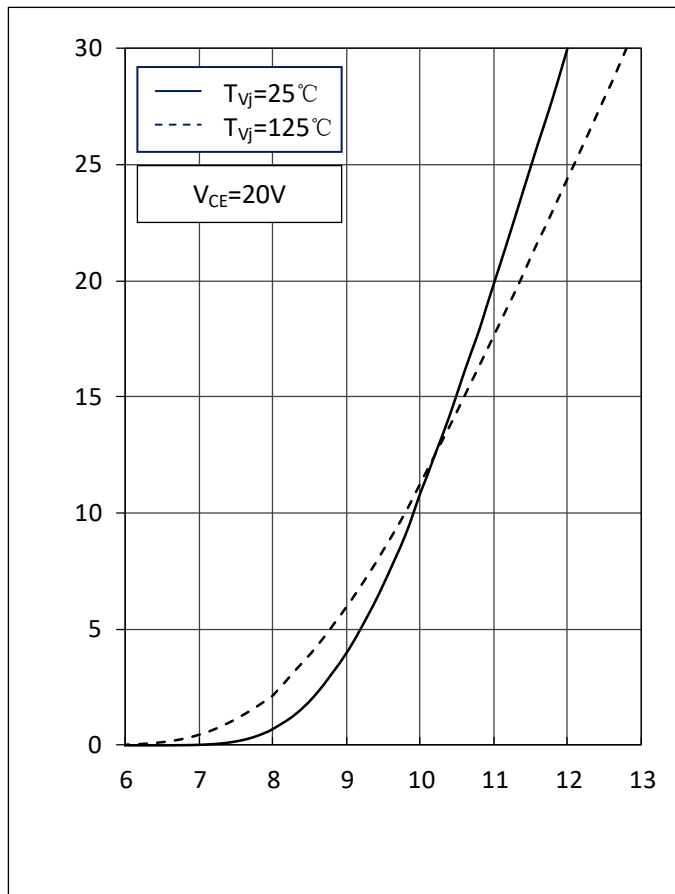
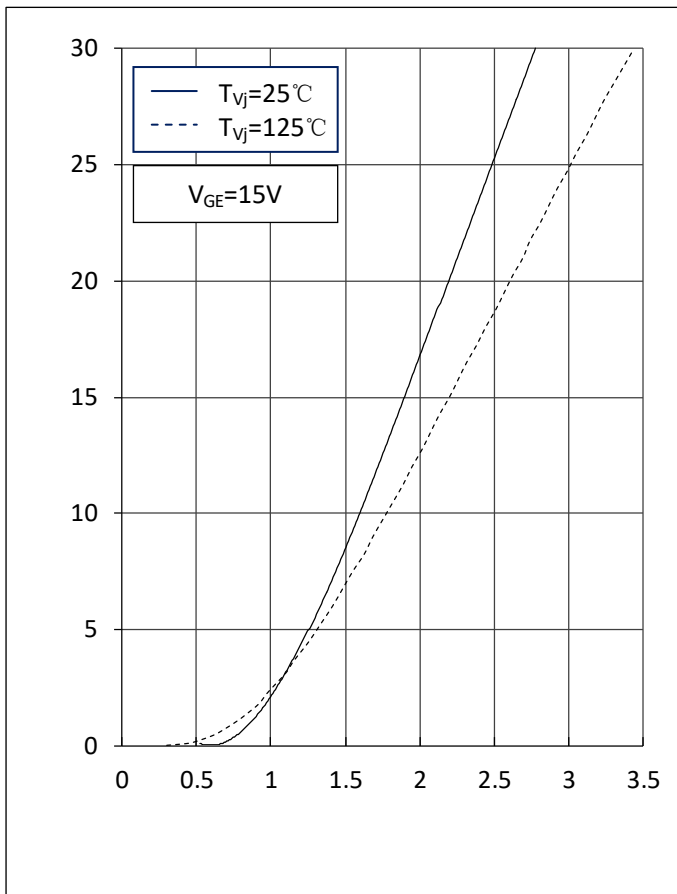
Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
- O - N D O I	-					F
Δ O I A-	Δ	/ $^{\circ}C$ -				
+ R M N D O I	+					H2
Q I_{RM}		- - S 6 / & 8				&

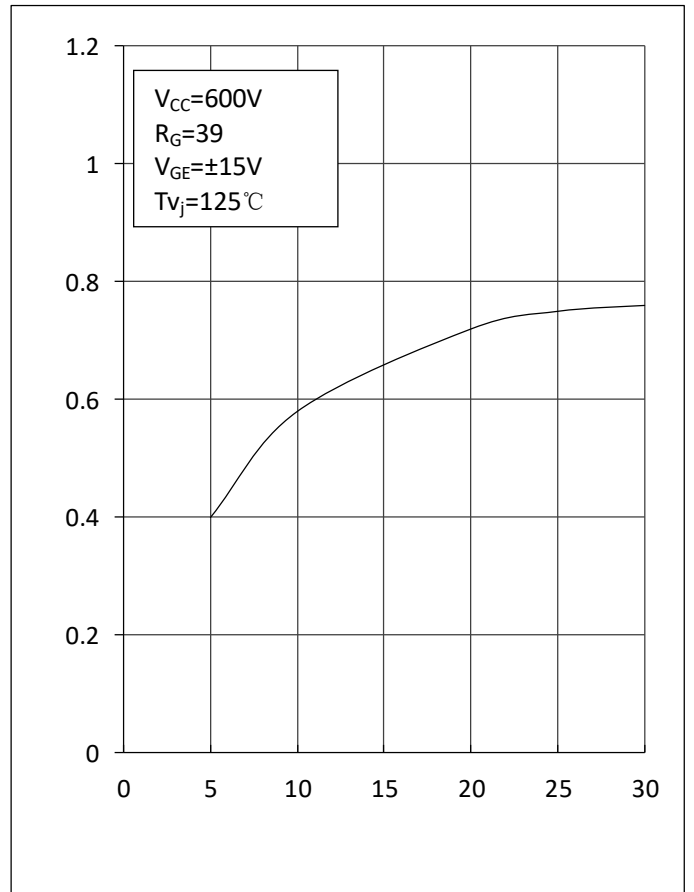
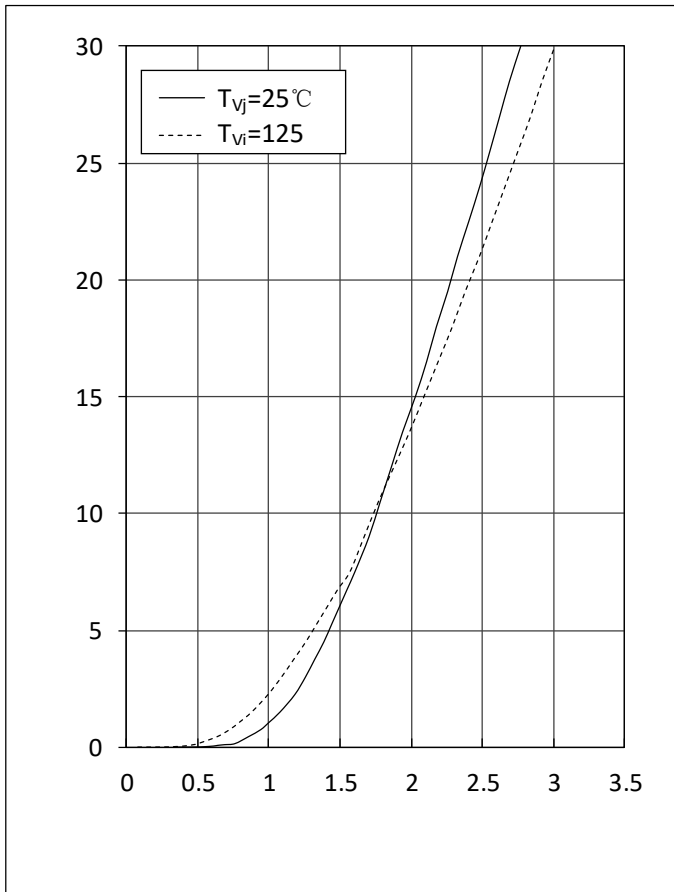
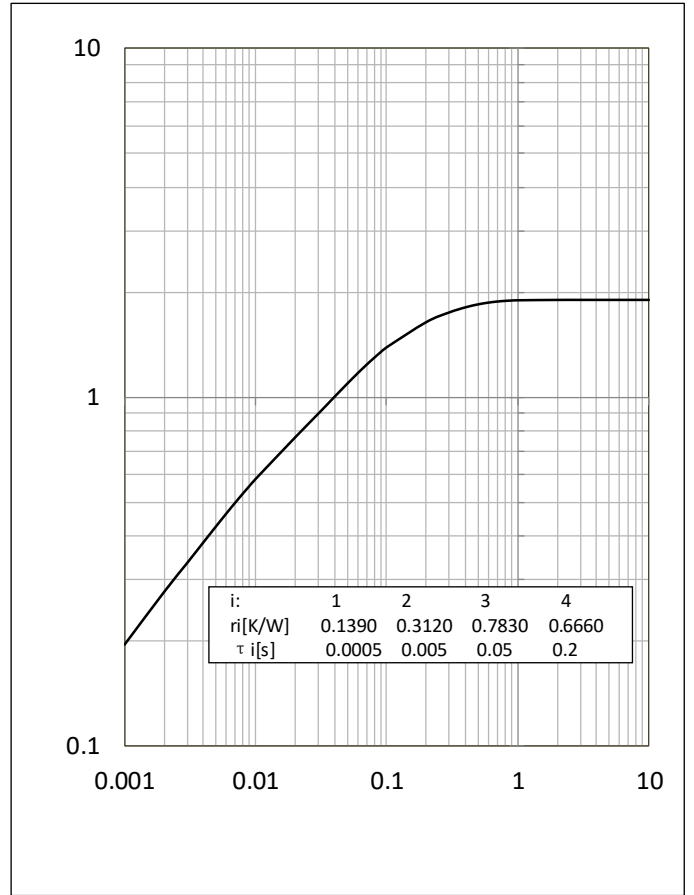
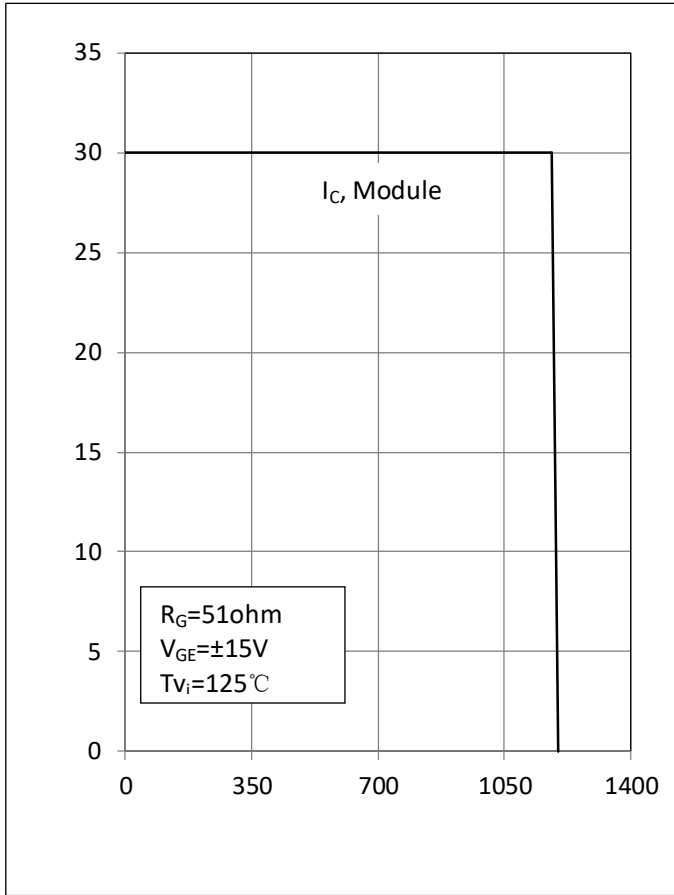


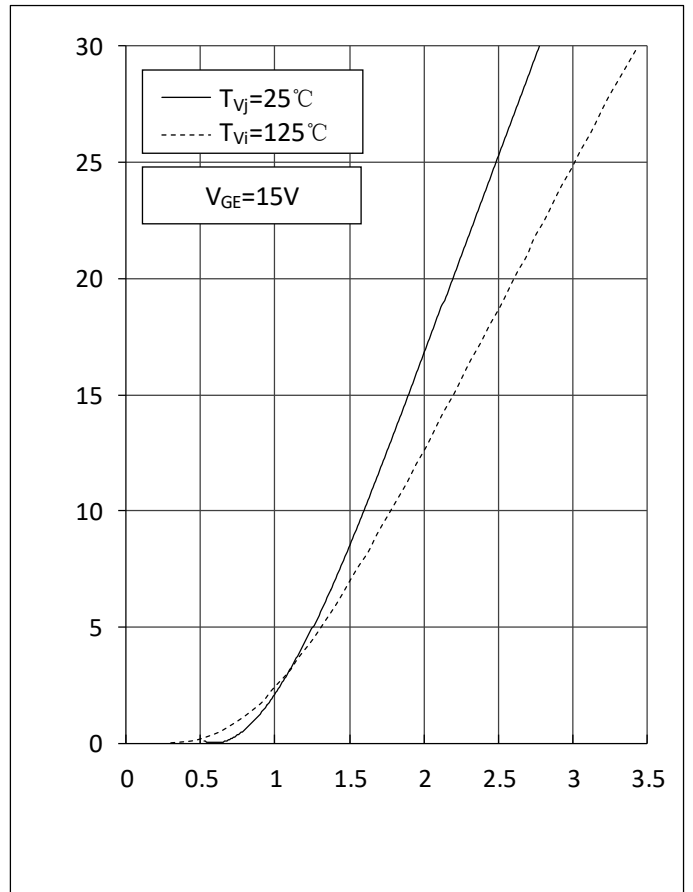
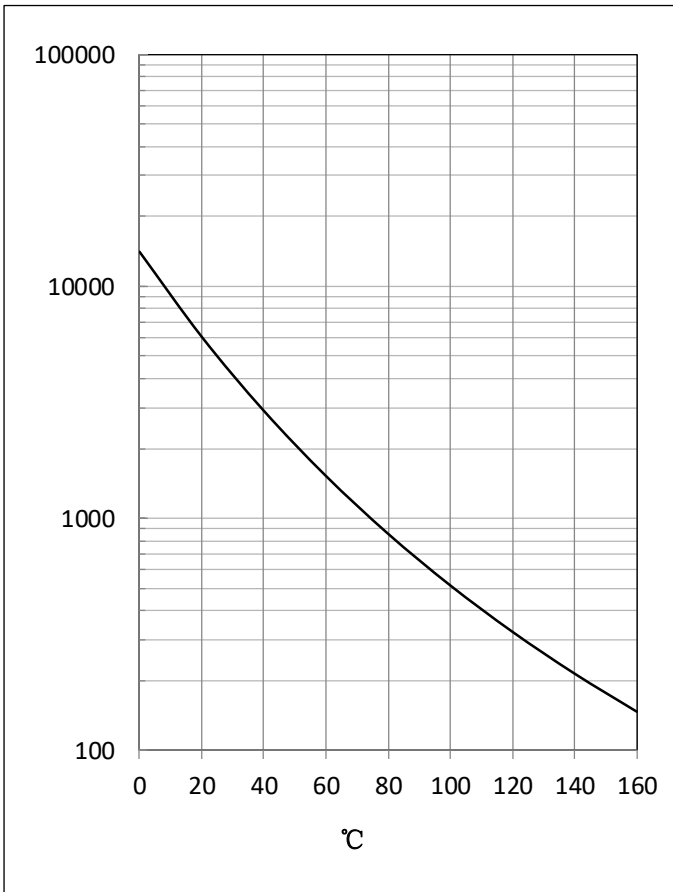
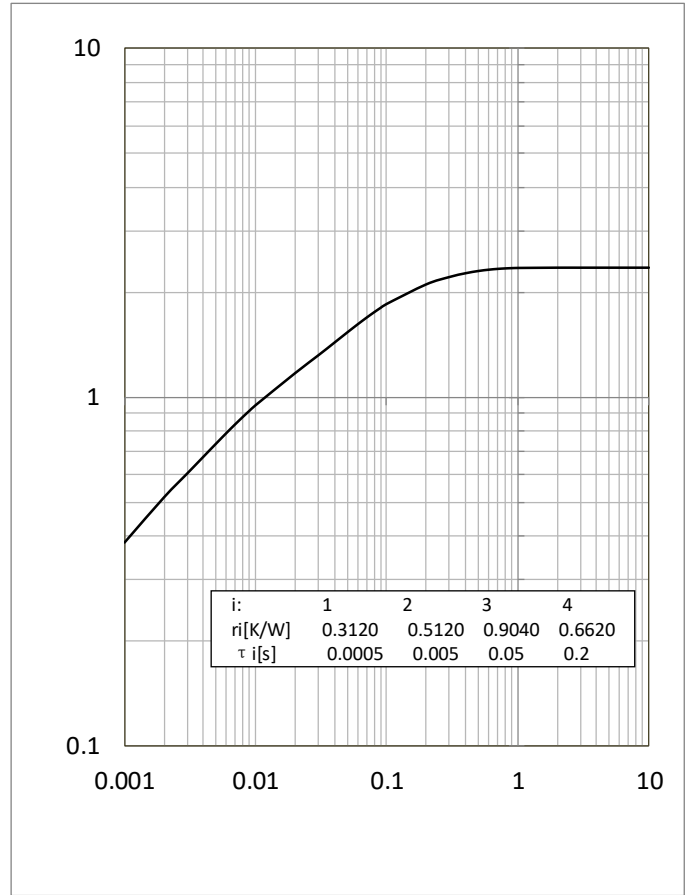
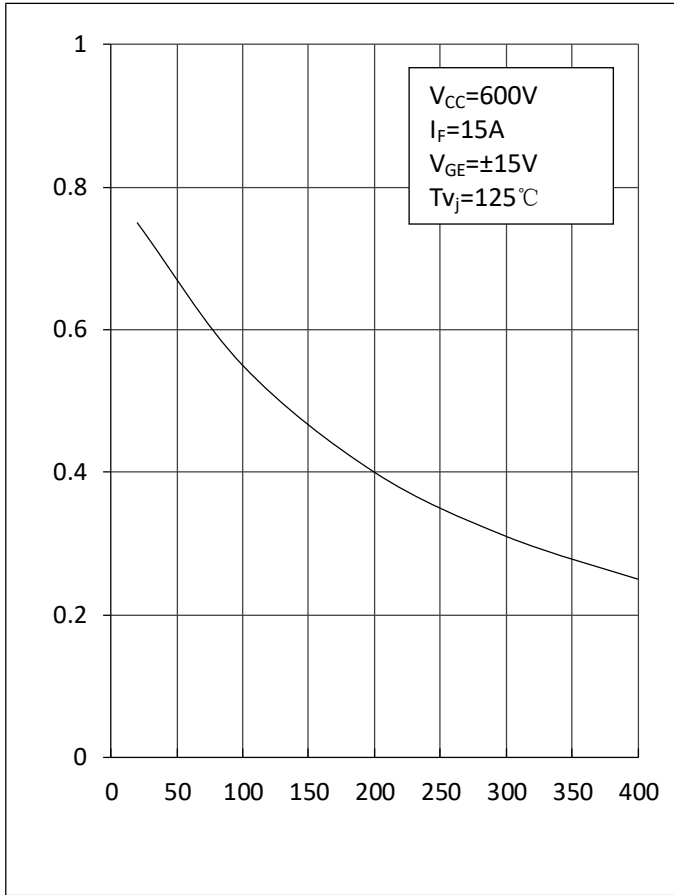
Module Characteristics

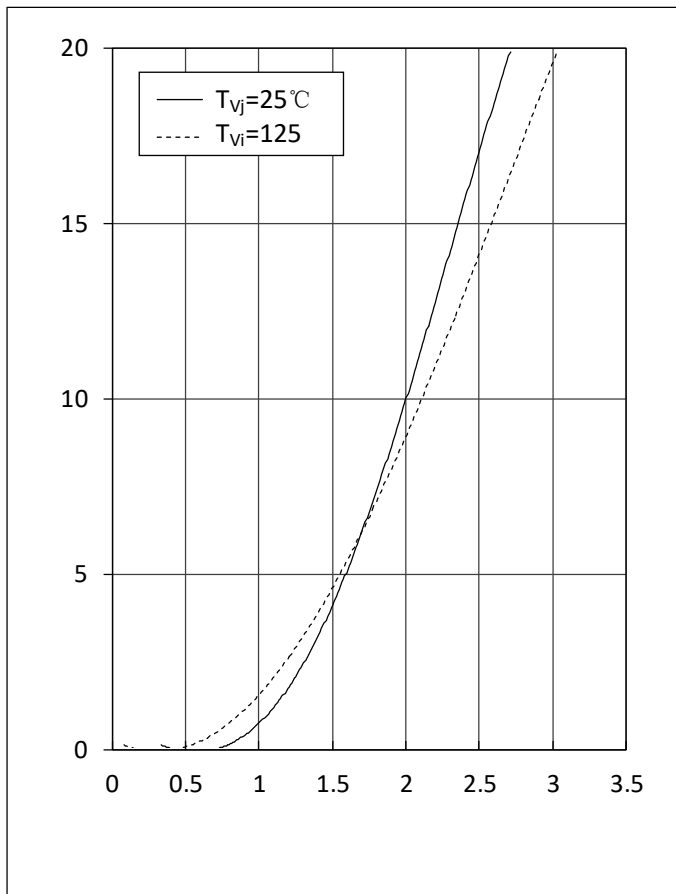
T_c=25°C unless otherwise specified

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
N GDI 1 GB	1 _{NG}	O HDA U				1
(SBPH PI DI / H MPM	/ _{HS}					°C
MDB PI DI / H MPM	/ _{GE}					°C
.OMB / H MPM	/ _{NB}					°C
.MTD P OI H PG						nH
(PG G MNDI ONHD G OD	- -	/ °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











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