Preliminary

EconoPIM™3 模块 采用第七代沟槽栅/场终止 IGBT7 和第七代发射极控制二极管 带有温度检测 NTC

特性

- 电气特性
  - V_{CES} = 1200 V
  - $I_{C\ nom}$ = 150 A / I_{CRM} = 300 A
  - 沟槽栅 IGBT7
  - 过载操作达 175°C
  - 低 V_{CEsat}
- 机械特性
  - 集成 NTC 温度传感器
  - 焊接技术
  - 铜基板
  - 低热阻的三氧化二铝 Al_2O_3 衬底

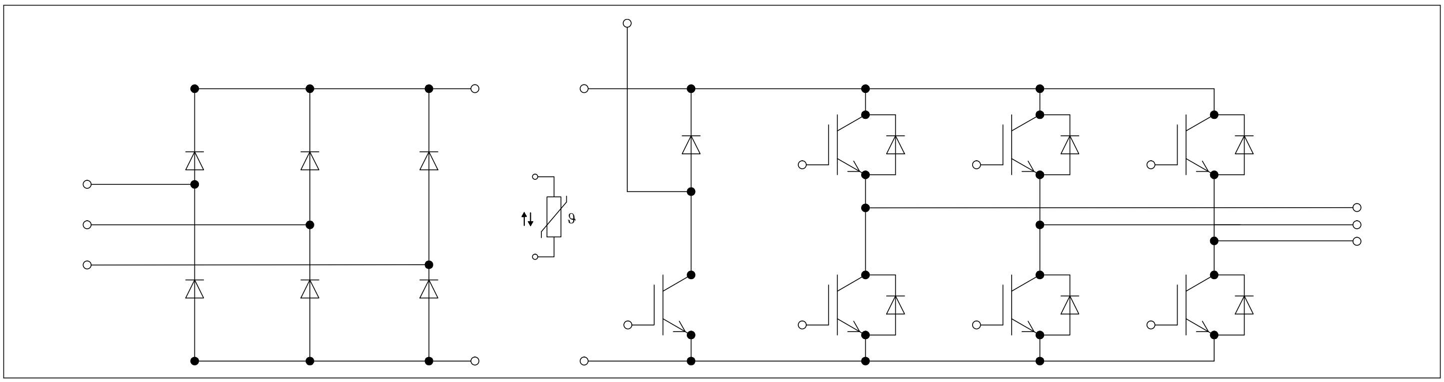
可选应用

- 辅助逆变器
- 电机传动
- 伺服驱动器

产品认证

- 根据 IEC 60747、60749 和 60068 标准的相关测试，符合工业应用的要求。

描述



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内容

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1 封装

表 1 绝缘协调

特征参数	代号	标注或测试条件	数值	单位
绝缘测试电压	V_{ISOL}	RMS, f = 50 Hz, t = 1 min	2.5	kV
模块基板材料			Cu	
内部绝缘		基本绝缘 (class 1, IEC 61140)	Al_2O_3	
爬电距离	d_{Creep}	端子至散热器	10.0	mm
电气间隙	d_{Clear}	端子至散热器	7.5	mm
相对电痕指数	CTI		> 200	
相对温度指数 (电)	RTI	住房	140	°C

表 2 特征值

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
杂散电感,模块	L_{sCE}				25		nH
模块引线电阻,端子-芯片	$R_{AA'+CC'}$	T_C=25°C, 每个开关			1.1		mΩ
模块引线电阻,端子-芯片	$R_{CC'+EE'}$	T_C=25°C, 每个开关			1.6		mΩ
储存温度	T_{stg}			-40		125	°C
模块安装的安装扭距	M	根据相应的应用手册进行安装	M5, 螺丝	3		6	Nm
重量	G				300		g

2 IGBT, 逆变器

表 3 最大标定值

特征参数	代号	标注或测试条件		数值	单位
集电极一发射极电压	V_{CES}		T_{vj} = 25 °C	1200	V
连续集电极直流电流	I_{CDC}	$T_{vj\,max}$ = 175 °C	T_C = 80 °C	150	A
集电极重复峰值电流	I_{CRM}	t_P = 1 ms		300	A
栅极一发射极峰值电压	V_{GES}			±20	V

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表 4 特征值

特征参数	代号	标注或测试条件		数值 最小值	数值 典型值	数值 最大值	单位
集电极—发射极饱和电压	$V_{CE\ sat}$	$I_C = 150$ A, $V_{GE} = 15$ V	$T_{vj} = 25$ °C		1.55	TBD	V
			$T_{vj} = 125$ °C		1.69		
			$T_{vj} = 175$ °C		1.77		
栅极阈值电压	V_{GEth}	$I_C = 3.5$ mA, $V_{CE} = V_{GE}$, $T_{vj} = 25$ °C		5.15	5.80	6.45	V
栅极电荷	Q_G	$V_{GE} = \pm15$ V, $V_{CE} = 600$ V			2.5		μC
内部栅极电阻	R_{Gint}	$T_{vj} = 25$ °C			1		Ω
输入电容	C_{ies}	$f = 100$ kHz, $T_{vj} = 25$ °C, $V_{CE} = 25$ V, $V_{GE} = 0$ V			30.1		nF
反向传输电容	C_{res}	$f = 100$ kHz, $T_{vj} = 25$ °C, $V_{CE} = 25$ V, $V_{GE} = 0$ V			0.105		nF
集电极-发射极截止电流	I_{CES}	$V_{CE} = 1200$ V, $V_{GE} = 0$ V	$T_{vj} = 25$ °C			0.012	mA
栅极-发射极漏电流	I_{GES}	$V_{CE} = 0$ V, $V_{GE} = 20$ V, $T_{vj} = 25$ °C				100	nA
开通延迟时间(感性负载)	t_{don}	$I_C = 150$ A, $V_{CE} = 600$ V, $V_{GE} = \pm15$ V, $R_{Gon} = 3.3$ Ω	$T_{vj} = 25$ °C		0.172		μs
			$T_{vj} = 125$ °C		0.183		
			$T_{vj} = 175$ °C		0.189		
上升时间(感性负载)	t_r	$I_C = 150$ A, $V_{CE} = 600$ V, $V_{GE} = \pm15$ V, $R_{Gon} = 3.3$ Ω	$T_{vj} = 25$ °C		0.072		μs
			$T_{vj} = 125$ °C		0.077		
			$T_{vj} = 175$ °C		0.080		

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表 4 特征值 (continued)

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
关断延迟时间(感性负载)	t_{doff}	I_C = 150 A, V_{CE} = 600 V, V_{GE} = ±15 V, R_{Goff} = 3.3 Ω	T_{vj} = 25 °C		0.331		µs
			T_{vj} = 125 °C		0.414		
			T_{vj} = 175 °C		0.433		
下降时间(感性负载)	t_f	I_C = 150 A, V_{CE} = 600 V, V_{GE} = ±15 V, R_{Goff} = 3.3 Ω	T_{vj} = 25 °C		0.103		µs
			T_{vj} = 125 °C		0.198		
			T_{vj} = 175 °C		0.262		
开通损耗能量 (每脉冲)	E_{on}	I_C = 150 A, V_{CE} = 600 V, $L_σ$ = 35 nH, V_{GE} = ±15 V, R_{Gon} = 3.3 Ω, di/dt = 1700 A/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		16.6		mJ
			T_{vj} = 125 °C		24.9		
			T_{vj} = 175 °C		29.6		
关断损耗能量 (每脉冲)	E_{off}	I_C = 150 A, V_{CE} = 600 V, $L_σ$ = 35 nH, V_{GE} = ±15 V, R_{Goff} = 3.3 Ω, dv/dt = 3200 V/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		10.4		mJ
			T_{vj} = 125 °C		15.9		
			T_{vj} = 175 °C		19.9		
短路数据	I_{SC}	V_{GE} ≤ 15 V, V_{CC} = 800 V, V_{CEmax}=V_{CES}-L_{sCE}*di/dt	t_P ≤ 8 µs, T_{vj} = 150 °C		520		A
			t_P ≤ 7 µs, T_{vj} = 175 °C		490		
结一外壳热阻	R_{thJC}	每个 IGBT				0.290	K/W
外壳一散热器热阻	R_{thCH}	每个 IGBT, $λ_{grease}$= 1 W/(m*K)			0.0680		K/W
允许开关的温度范围	$T_{vj\,op}$			-40		175	°C

注: *$T_{vj\,op}$ > 150°C is allowed for operation at overload conditions. For detailed specifications, please refer to AN 2018-14.*

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3 二极管,逆变器

表 5 最大标定值

特征参数	代号	标注或测试条件		数值	单位
反向重复峰值电压	V_{RRM}		$T_{vj} = 25\ °C$	1200	V
连续正向直流电流	I_F			150	A
正向重复峰值电流	I_{FRM}	$t_P = 1$ ms		300	A
I2t-值	I^2t	$t_P = 10$ ms, $V_R = 0$ V	$T_{vj} = 125\ °C$	2700	A^2s
			$T_{vj} = 175\ °C$	2250	

表 6 特征值

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
正向电压	V_F	$I_F = 150$ A, $V_{GE} = 0$ V	$T_{vj} = 25\ °C$		1.72	TBD	V
			$T_{vj} = 125\ °C$		1.59		
			$T_{vj} = 175\ °C$		1.52		
反向恢复峰值电流	I_{RM}	$V_R = 600$ V, $I_F = 150$ A, $V_{GE} = -15$ V, $-di_F/dt = 1700$ A/µs ($T_{vj} = 175\ °C$)	$T_{vj} = 25\ °C$		65.3		A
			$T_{vj} = 125\ °C$		91.8		
			$T_{vj} = 175\ °C$		107		
恢复电荷	Q_r	$V_R = 600$ V, $I_F = 150$ A, $V_{GE} = -15$ V, $-di_F/dt = 1700$ A/µs ($T_{vj} = 175\ °C$)	$T_{vj} = 25\ °C$		10.3		µC
			$T_{vj} = 125\ °C$		21.7		
			$T_{vj} = 175\ °C$		28.6		
反向恢复损耗（每脉冲）	E_{rec}	$V_R = 600$ V, $I_F = 150$ A, $V_{GE} = -15$ V, $-di_F/dt = 1700$ A/µs ($T_{vj} = 175\ °C$)	$T_{vj} = 25\ °C$		3.27		mJ
			$T_{vj} = 125\ °C$		7.32		
			$T_{vj} = 175\ °C$		9.88		
结一外壳热阻	R_{thJC}	每个二极管				0.463	K/W
外壳一散热器热阻	R_{thCH}	每个二极管, λ_{grease}= 1 W/(m*K)			0.0698		K/W
允许开关的温度范围	$T_{vj\ op}$			-40		175	°C

注: *$T_{vj\ op}$ > 150°C is allowed for operation at overload conditions. For detailed specifications, please refer to AN 2018-14.*

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4 二极管,整流器

表 7 最大标定值

特征参数	代号	标注或测试条件		数值	单位
反向重复峰值电压	V_{RRM}	T_{vj} = 25 °C		1600	V
最大正向均方根电流(每芯片)	I_{FRMSM}	T_C = 100 °C		150	A
最大整流器输出均方根电流	I_{RMSM}	T_C = 100 °C		150	A
正向浪涌电流	I_{FSM}	t_P = 10 ms	T_{vj} = 25 °C	1600	A
			T_{vj} = 150 °C	1400	
I2t-值	I^2t	t_P = 10 ms	T_{vj} = 25 °C	12800	A^2s
			T_{vj} = 150 °C	9800	

表 8 特征值

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
正向电压	V_F	I_F = 150 A	T_{vj} = 150 °C		0.97		V
反向电流	I_r	T_{vj} = 150 °C, V_R = 1600 V			1		mA
结—外壳热阻	R_{thJC}	每个二极管				0.333	K/W
外壳—散热器热阻	R_{thCH}	每个二极管, λ_{grease}= 1 W/(m*K)			0.0670		K/W
允许开关的温度范围	$T_{vj, op}$			-40		150	°C

5 IGBT, 制动-斩波器

表 9 最大标定值

特征参数	代号	标注或测试条件		数值	单位
集电极—发射极电压	V_{CES}		T_{vj} = 25 °C	1200	V
连续集电极直流电流	I_{CDC}	$T_{vj\,max}$ = 175 °C	T_C = 90 °C	100	A
集电极重复峰值电流	I_{CRM}	t_P = 1 ms		200	A
栅极—发射极峰值电压	V_{GES}			±20	V

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表 10 **特征值**

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
集电极－发射极饱和电压	$V_{CE\ sat}$	I_C = 100 A, V_{GE} = 15 V	T_{vj} = 25 °C		1.50	TBD	V
			T_{vj} = 125 °C		1.64		
			T_{vj} = 175 °C		1.72		
栅极阈值电压	V_{GEth}	I_C = 2.5 mA, V_{CE} = V_{GE}, T_{vj} = 25 °C		5.15	5.80	6.45	V
栅极电荷	Q_G	V_{GE} = ±15 V, V_{CE} = 600 V			1.8		µC
内部栅极电阻	R_{Gint}	T_{vj} = 25 °C			1.5		Ω
输入电容	C_{ies}	f = 100 kHz, T_{vj} = 25 °C, V_{CE} = 25 V, V_{GE} = 0 V			21.7		nF
反向传输电容	C_{res}	f = 100 kHz, T_{vj} = 25 °C, V_{CE} = 25 V, V_{GE} = 0 V			0.076		nF
集电极-发射极截止电流	I_{CES}	V_{CE} = 1200 V, V_{GE} = 0 V	T_{vj} = 25 °C			0.01	mA
栅极-发射极漏电流	I_{GES}	V_{CE} = 0 V, V_{GE} = 20 V, T_{vj} = 25 °C				100	nA
开通延迟时间(感性负载)	t_{don}	I_C = 100 A, V_{CE} = 600 V, V_{GE} = ±15 V, R_{Gon} = 4.3 Ω	T_{vj} = 25 °C		0.169		µs
			T_{vj} = 125 °C		0.180		
			T_{vj} = 175 °C		0.187		
上升时间(感性负载)	t_r	I_C = 100 A, V_{CE} = 600 V, V_{GE} = ±15 V, R_{Gon} = 4.3 Ω	T_{vj} = 25 °C		0.063		µs
			T_{vj} = 125 °C		0.067		
			T_{vj} = 175 °C		0.070		

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表 10 特征值 (continued)

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
关断延迟时间(感性负载)	t_{doff}	I_C = 100 A, V_{CE} = 600 V, V_{GE} = ±15 V, R_{Goff} = 4.3 Ω	T_{vj} = 25 °C		0.310		µs
			T_{vj} = 125 °C		0.390		
			T_{vj} = 175 °C		0.410		
下降时间(感性负载)	t_f	I_C = 100 A, V_{CE} = 600 V, V_{GE} = ±15 V, R_{Goff} = 4.3 Ω	T_{vj} = 25 °C		0.110		µs
			T_{vj} = 125 °C		0.190		
			T_{vj} = 175 °C		0.250		
开通损耗能量 (每脉冲)	E_{on}	I_C = 100 A, V_{CE} = 600 V, L_σ = 35 nH, V_{GE} = ±15 V, R_{Gon} = 4.3 Ω, di/dt = 1100 A/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		7.12		mJ
			T_{vj} = 125 °C		11.7		
			T_{vj} = 175 °C		14.5		
关断损耗能量 (每脉冲)	E_{off}	I_C = 100 A, V_{CE} = 600 V, L_σ = 35 nH, V_{GE} = ±15 V, R_{Goff} = 4.3 Ω, dv/dt = 2800 V/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		6.93		mJ
			T_{vj} = 125 °C		10.6		
			T_{vj} = 175 °C		13.3		
短路数据	I_{SC}	V_{GE} ≤ 15 V, V_{CC} = 800 V, $V_{CEmax}=V_{CES}-L_{sCE}$*di/dt	t_P ≤ 8 µs, T_{vj} = 150 °C		370		A
			t_P ≤ 7 µs, T_{vj} = 175 °C		350		
结一外壳热阻	R_{thJC}	每个 IGBT				0.373	K/W
外壳一散热器热阻	R_{thCH}	每个 IGBT, λ_{grease}= 1 W/(m*K)			0.0680		K/W
允许开关的温度范围	$T_{vj\,op}$			-40		175	°C

注: *$T_{vj\,op}$ > 150°C is allowed for operation at overload conditions. For detailed specifications, please refer to AN 2018-14.*

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6 二极管，制动-斩波器

表 11 最大标定值

特征参数	代号	标注或测试条件		数值	单位
反向重复峰值电压	V_{RRM}		T_{vj} = 25 °C	1200	V
连续正向直流电流	I_F			50	A
正向重复峰值电流	I_{FRM}	t_P = 1 ms		100	A
I2t-值	I^2t	t_P = 10 ms, V_R = 0 V	T_{vj} = 125 °C	220	A^2s
			T_{vj} = 175 °C	200	

表 12 特征值

特征参数	代号	标注或测试条件		数值			单位
				最小值	典型值	最大值	
正向电压	V_F	I_F = 50 A, V_{GE} = 0 V	T_{vj} = 25 °C		1.72	TBD	V
			T_{vj} = 125 °C		1.59		
			T_{vj} = 175 °C		1.52		
反向恢复峰值电流	I_{RM}	V_R = 600 V, I_F = 50 A, V_{GE} = -15 V, -di$_F$/dt = 550 A/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		37.3		A
			T_{vj} = 125 °C		44.3		
			T_{vj} = 175 °C		49.6		
恢复电荷	Q_r	V_R = 600 V, I_F = 50 A, V_{GE} = -15 V, -di$_F$/dt = 550 A/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		3.86		µC
			T_{vj} = 125 °C		7.05		
			T_{vj} = 175 °C		10.1		
反向恢复损耗（每脉冲）	E_{rec}	V_R = 600 V, I_F = 50 A, V_{GE} = -15 V, -di$_F$/dt = 550 A/µs (T_{vj} = 175 °C)	T_{vj} = 25 °C		1.13		mJ
			T_{vj} = 125 °C		2.34		
			T_{vj} = 175 °C		3.23		
结一外壳热阻	R_{thJC}	每个二极管				0.909	K/W
外壳一散热器热阻	R_{thCH}	每个二极管, λ_{grease}= 1 W/(m*K)			0.109		K/W
允许开关的温度范围	$T_{vj\,op}$			-40		175	°C

注: *$T_{vj\,op}$ > 150°C is allowed for operation at overload conditions. For detailed specifications, please refer to AN 2018-14.*

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7 负温度系数热敏电阻

表 13 特征值

特征参数	代号	标注或测试条件	数值			单位
			最小值	典型值	最大值	
额定电阻值	R_{25}	T_{NTC} = 25 °C		5		kΩ
R_{100} 偏差	$\Delta R/R$	T_{NTC} = 100 °C, R_{100} = 493 Ω	-5		5	%
耗散功率	P_{25}	T_{NTC} = 25 °C			20	mW
B-值	$B_{25/50}$	$R_2 = R_{25}\ exp[B_{25/50}(1/T_2-1/(298{,}15\ K))]$		3375		K
B-值	$B_{25/80}$	$R_2 = R_{25}\ exp[B_{25/80}(1/T_2-1/(298{,}15\ K))]$		3411		K
B-值	$B_{25/100}$	$R_2 = R_{25}\ exp[B_{25/100}(1/T_2-1/(298{,}15\ K))]$		3433		K

注: *根据应用手册标定*

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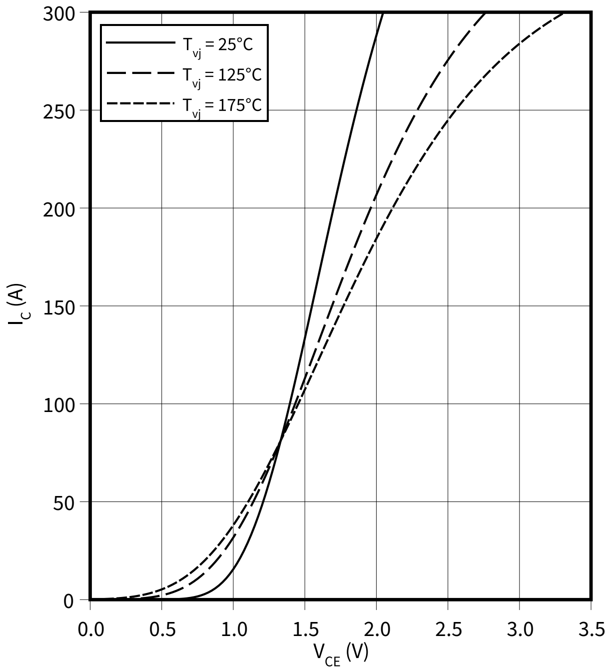
8 特征参数图表

输出特性 （典型), IGBT, 逆变器

$I_C = f(V_{CE})$

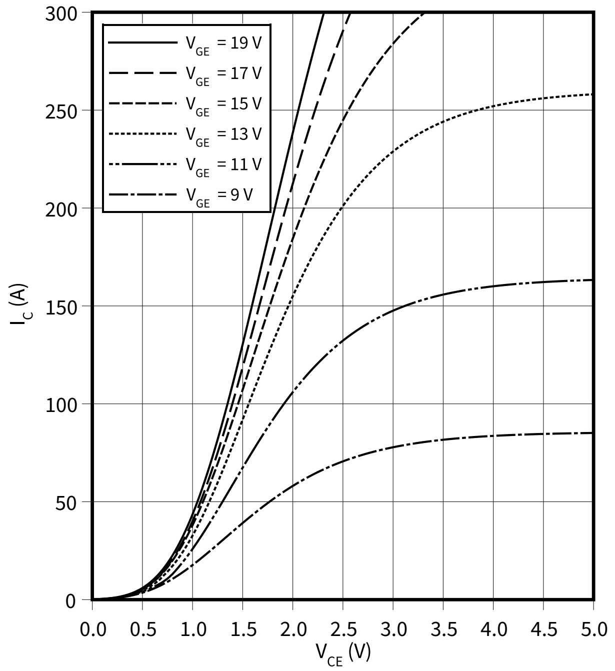
$V_{GE} = 15\ V$



输出特性 （典型), IGBT, 逆变器

$I_C = f(V_{CE})$

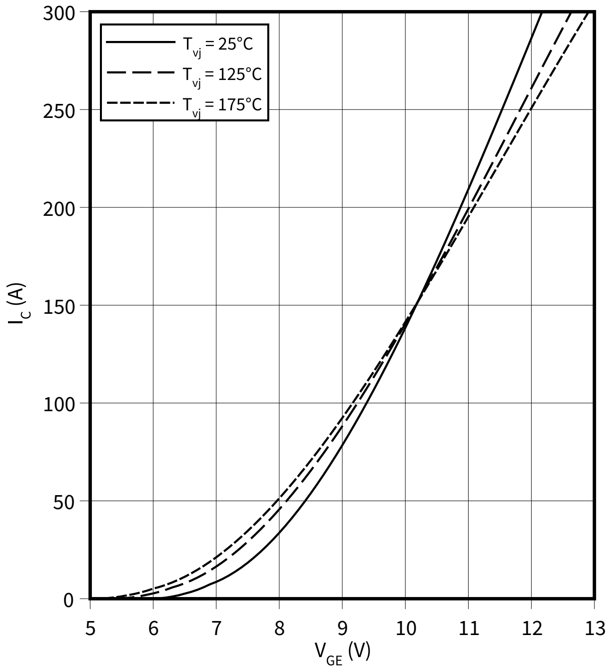
$T_{vj} = 175\ °C$



传输特性 (典型), IGBT, 逆变器

$I_C = f(V_{GE})$

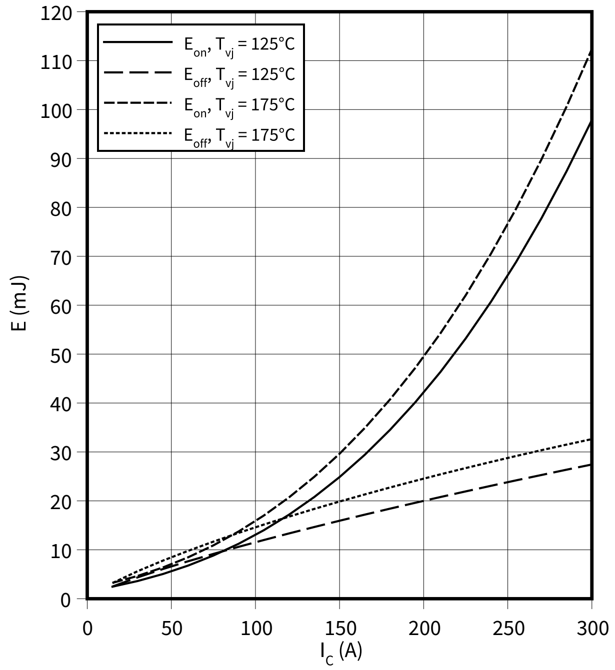
$V_{CE} = 20\ V$



开关损耗 （典型), IGBT, 逆变器

$E = f(I_C)$

$R_{Goff} = 3.3\ \Omega$, $R_{Gon} = 3.3\ \Omega$, $V_{CE} = 600\ V$, $V_{GE} = \pm\ 15\ V$



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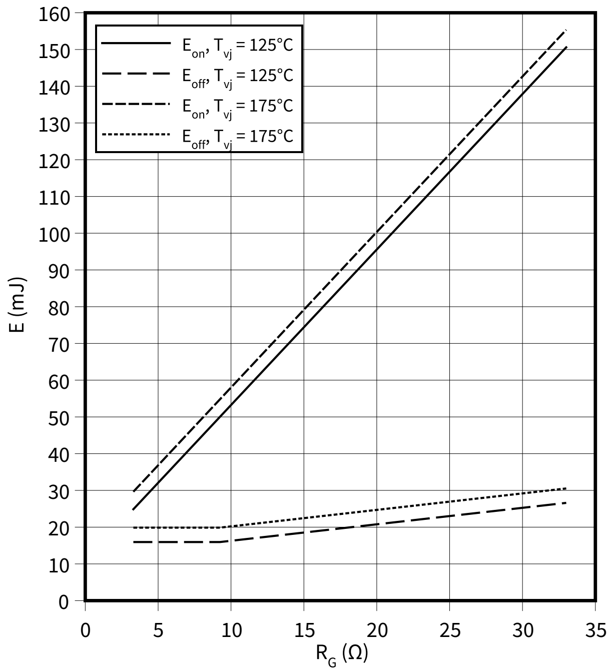
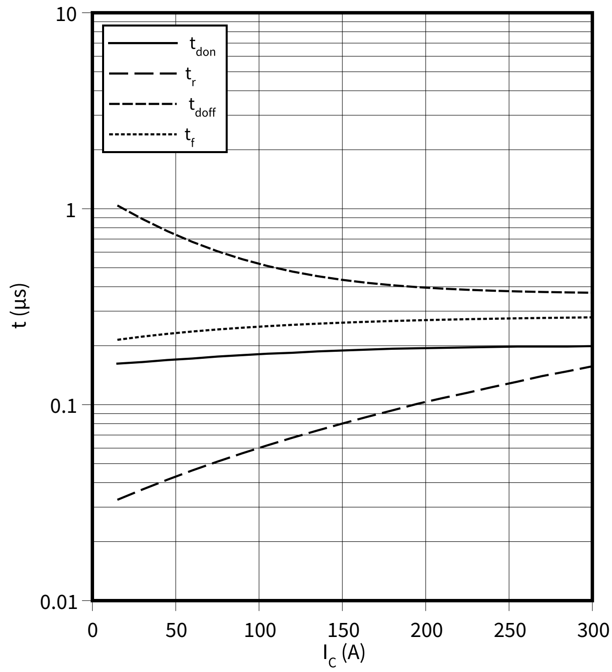
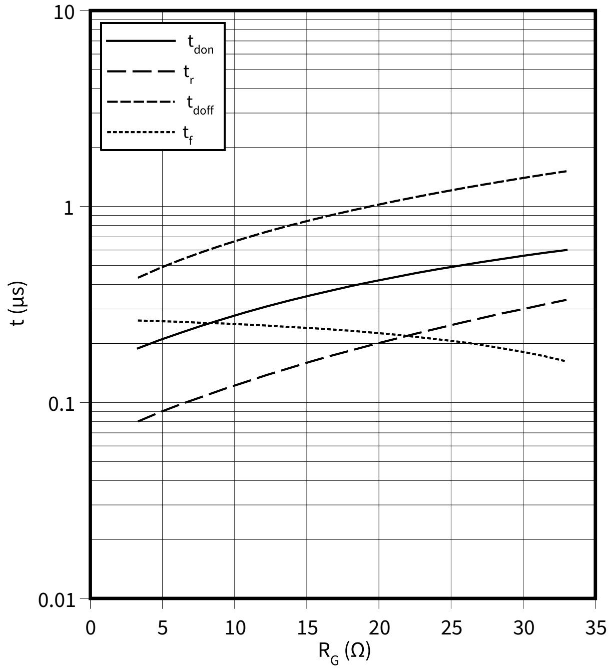
8 特征参数图表

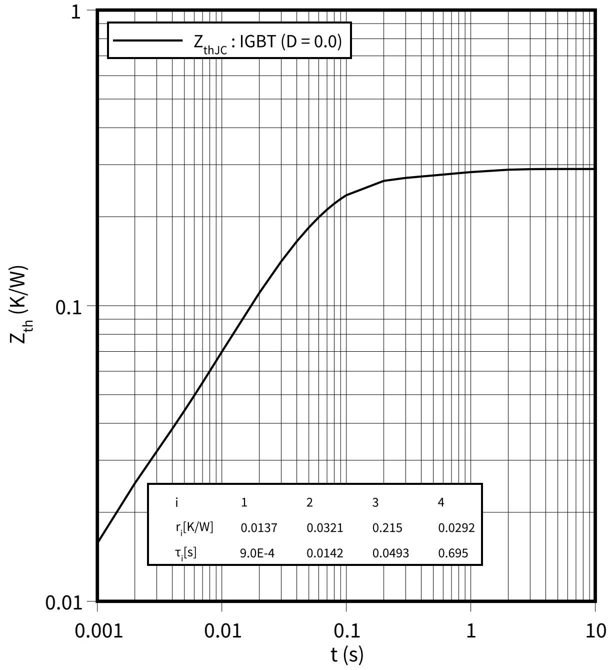
开关损耗 （典型), **IGBT,** 逆变器 $E = f(R_G)$ I_C = 150 A, V_{CE} = 600 V, V_{GE} = ± 15 V	**???** （典型), **IGBT,** 逆变器 $t = f(I_C)$ R_{Goff} = 3.3 Ω, R_{Gon} = 3.3 Ω, V_{CE} = 600 V, V_{GE} = ± 15 V, T_{vj} = 175 °C





??? （典型), **IGBT,** 逆变器 $t = f(R_G)$ I_C = 150 A, V_{CE} = 600 V, V_{GE} = ± 15 V, T_{vj} = 175 °C	瞬态热阻抗 **, IGBT,** 逆变器 $Z_{th} = f(t)$





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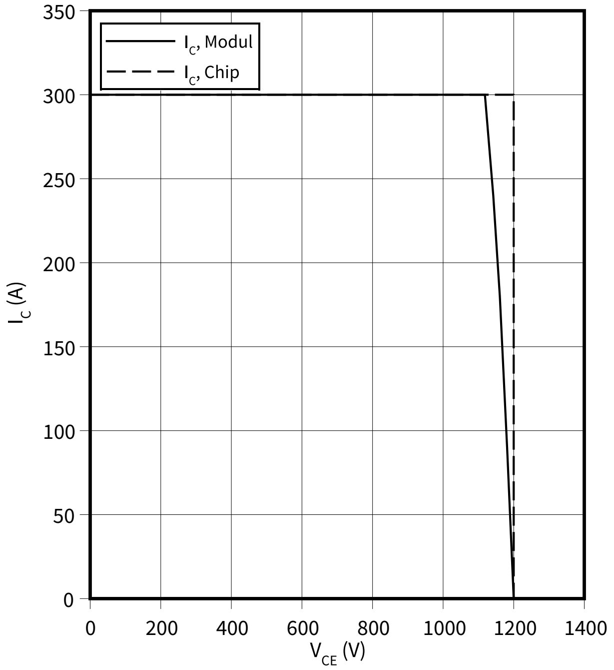
反偏安全工作区 （RBSOA），IGBT, 逆变器

$I_C = f(V_{CE})$

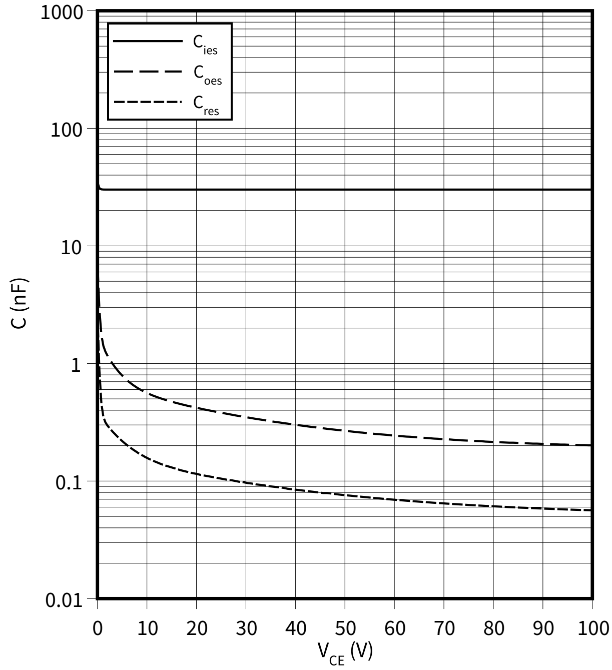
$R_{Goff} = 3.3\ \Omega$, $V_{GE} = 15$ V, $T_{vj} = 175$ °C



电容特性 （典型), IGBT, 逆变器

$C = f(V_{CE})$

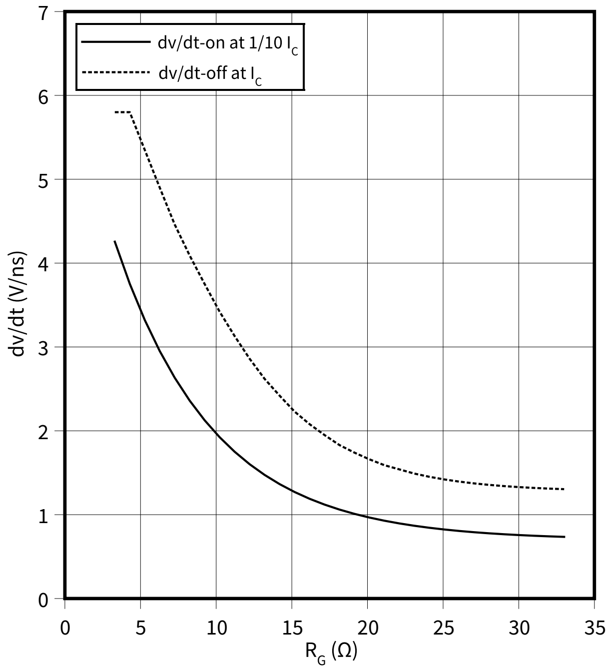
$f = 100$ kHz, $V_{GE} = 0$ V, $T_{vj} = 25$ °C



dv/dt （典型), IGBT, 逆变器

$dv/dt = f(R_G)$

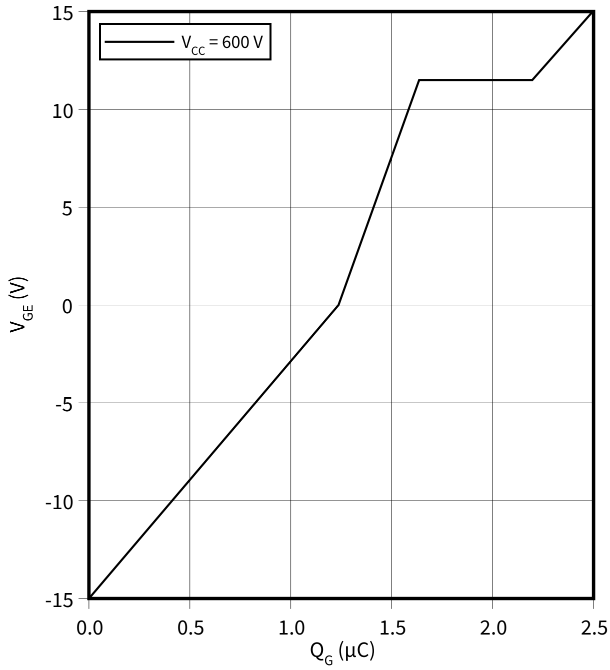
$I_C = 150$ A, $V_{CE} = 600$ V, $V_{GE} = \pm 15$ V, $T_{vj} = 25$ °C



栅极电荷特性 （典型), IGBT, 逆变器

$V_{GE} = f(Q_G)$

$I_C = 150$ A, $T_{vj} = 25$ °C



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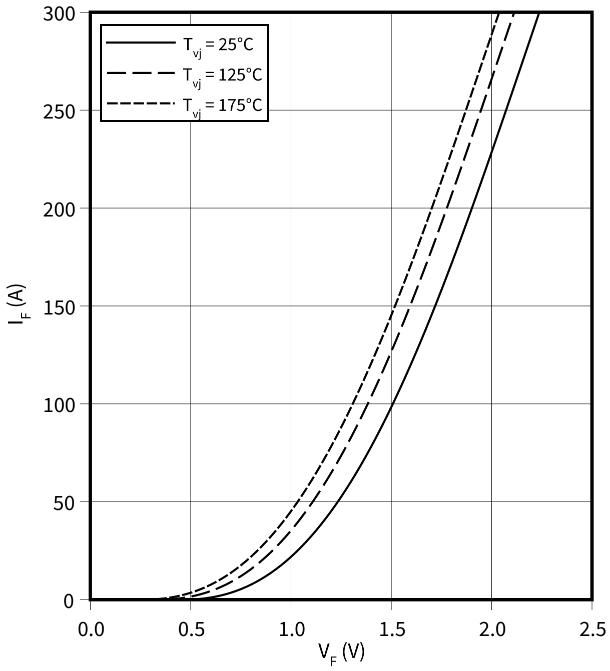
正向偏压特性 （典型), 二极管,逆变器

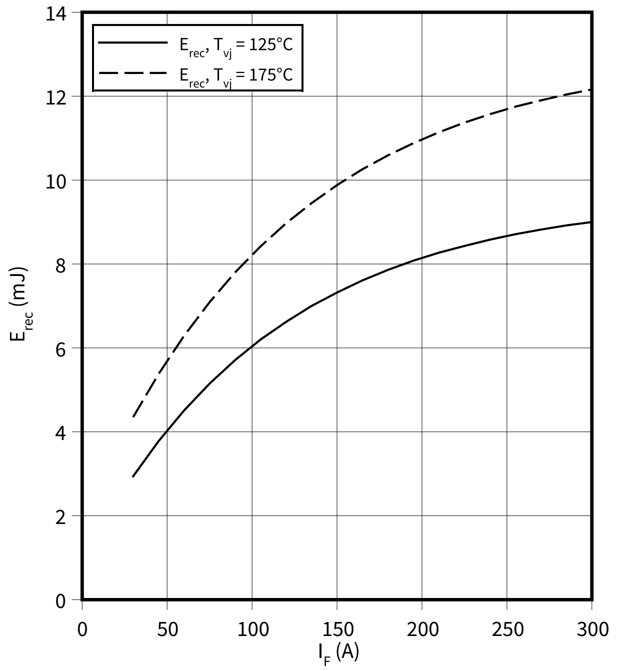
$I_F = f(V_F)$



开关损耗 （典型), 二极管,逆变器

$E_{rec} = f(I_F)$

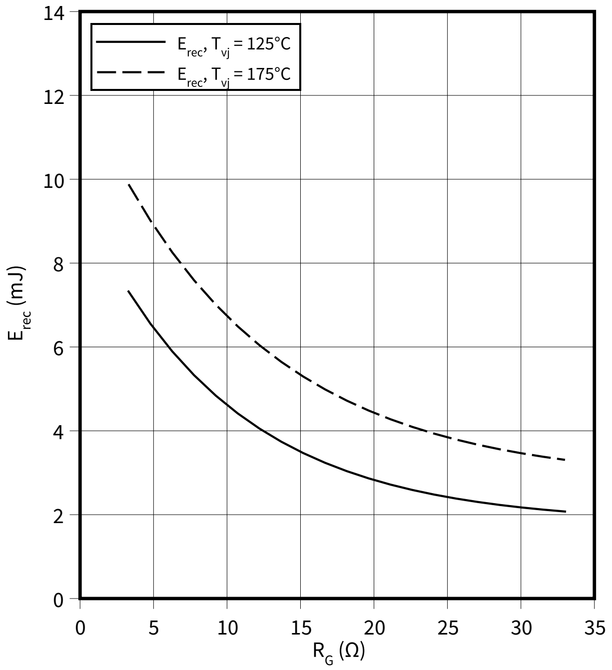
$R_{Gon} = 3.3\ \Omega$, $V_{CE} = 600$ V



开关损耗 （典型), 二极管,逆变器

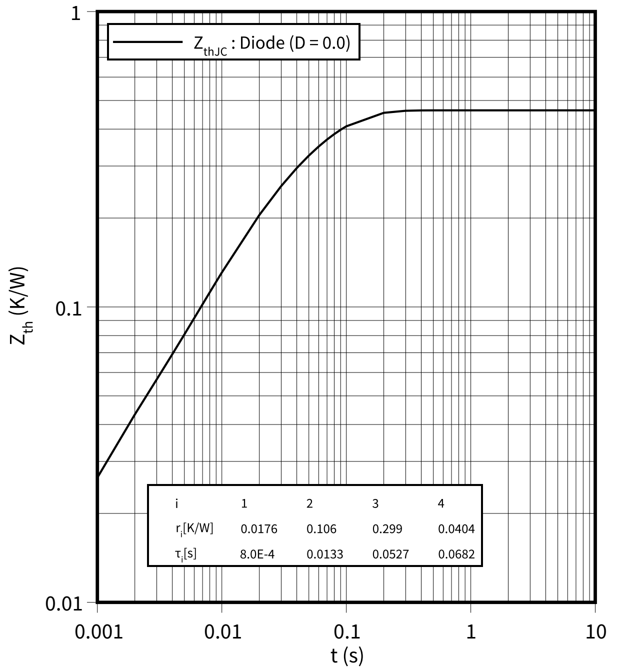
$E_{rec} = f(R_G)$

$V_{CE} = 600$ V, $I_F = 150$ A



瞬态热阻抗 , 二极管,逆变器

$Z_{th} = f(t)$



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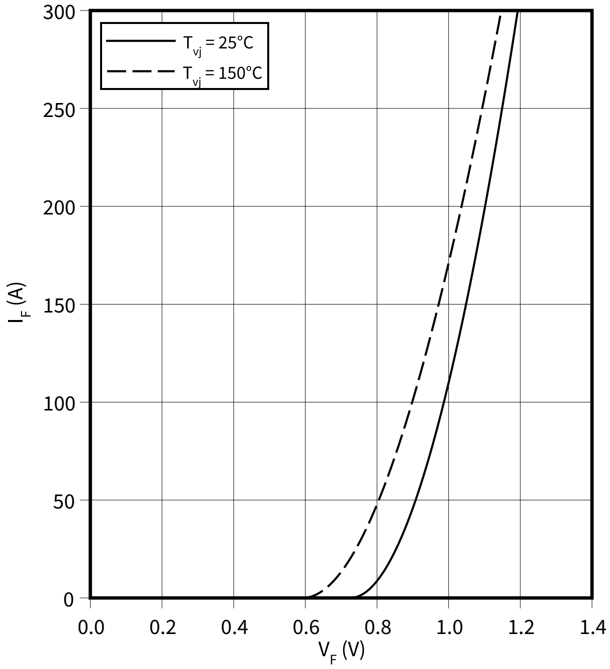
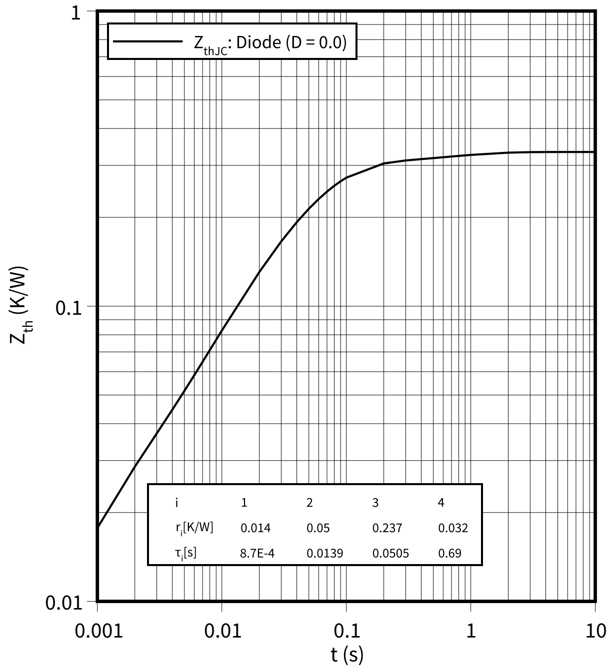
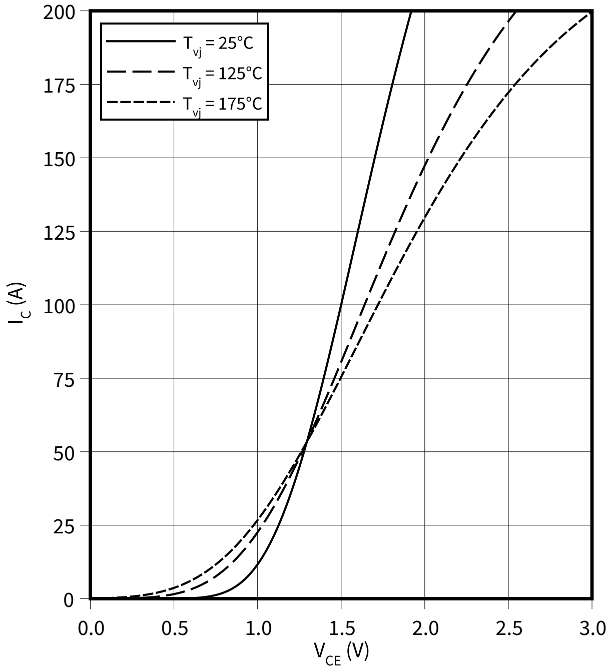
正向偏压特性 （典型), 二极管,整流器
$I_F = f(V_F)$



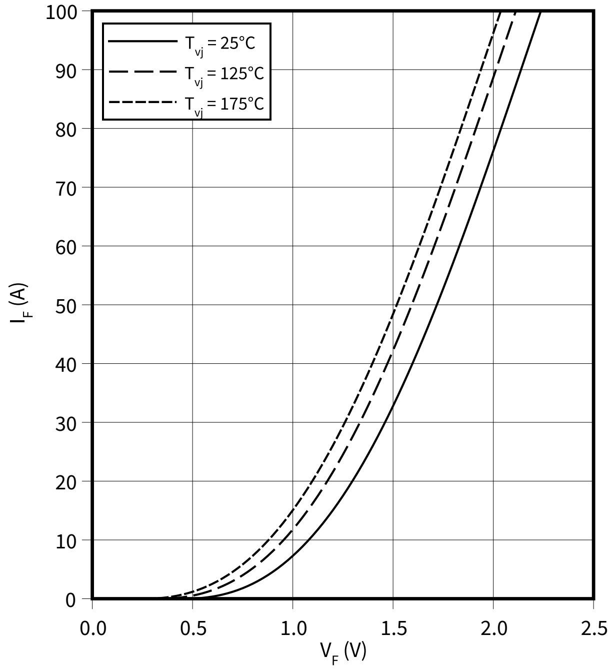
瞬态热阻抗 , 二极管,整流器
$Z_{th} = f(t)$



输出特性 （典型), **IGBT,** 制动-斩波器
$I_C = f(V_{CE})$
$V_{GE} = 15$ V



正向偏压特性 （典型), 二极管， 制动-斩波器
$I_F = f(V_F)$



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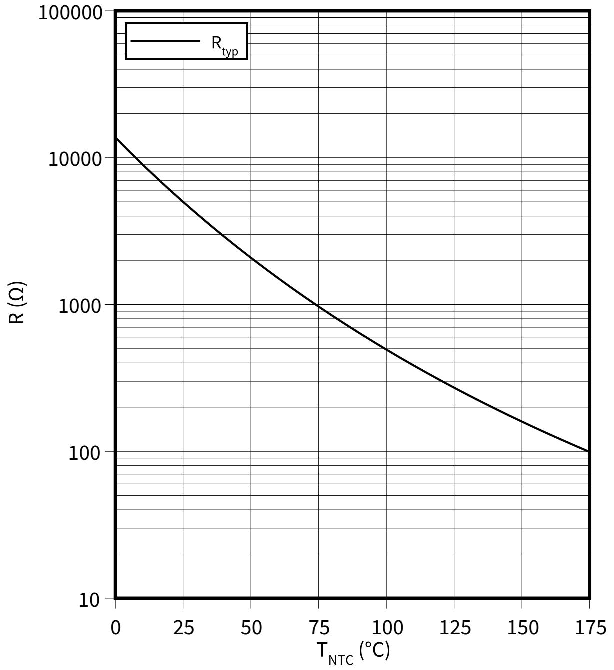
温度特性, 负温度系数热敏电阻
$R = f(T_{NTC})$



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9 电路拓扑图

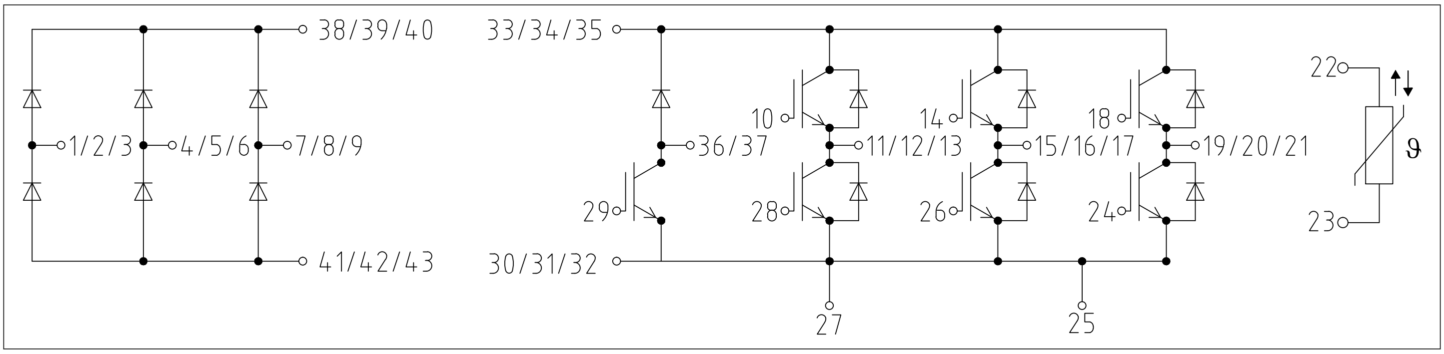

图 2

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10 封装尺寸

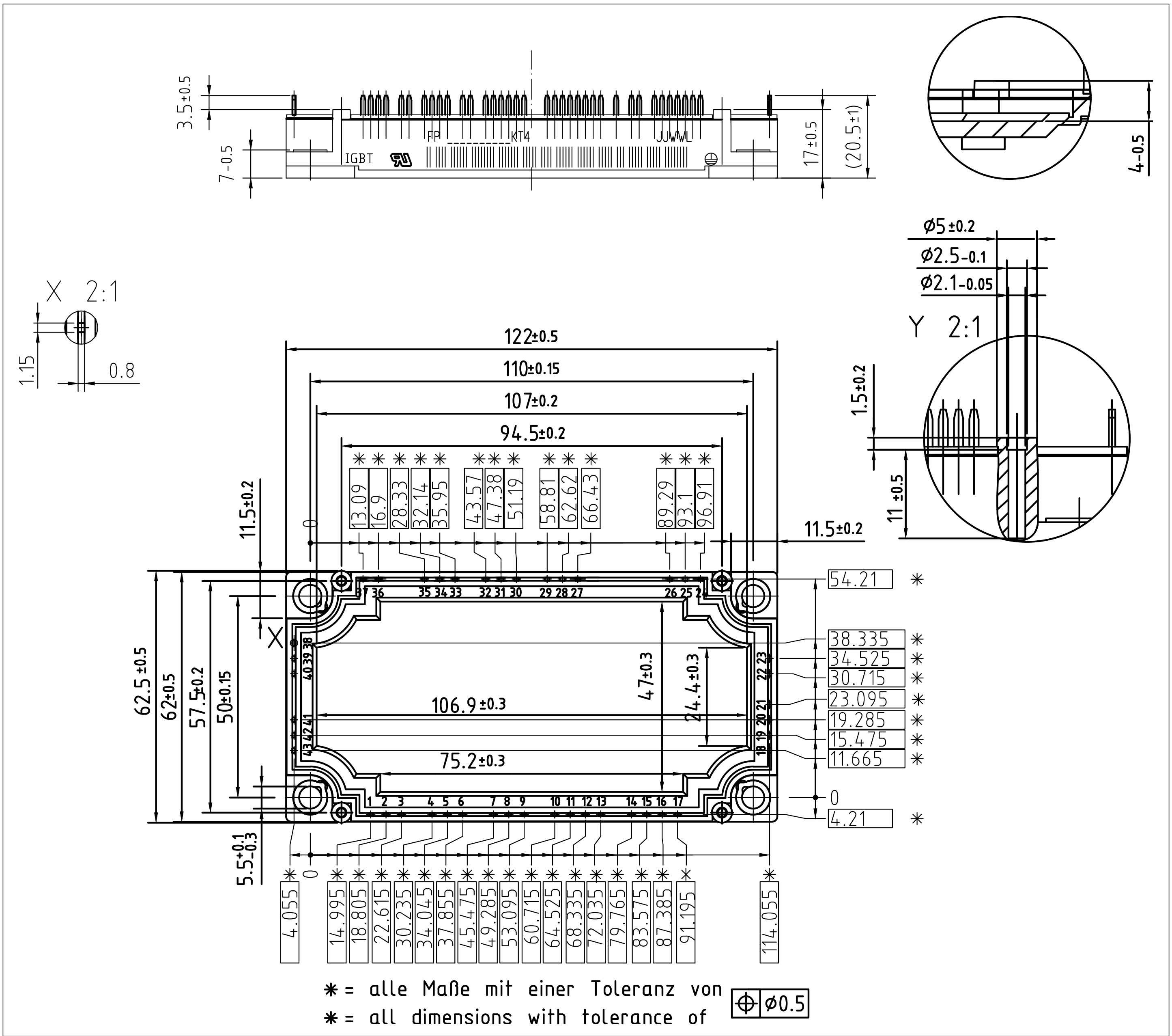

图 3

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11 模块标签代码

Module label code		
Code format	Data Matrix	Barcode Code128
Encoding	ASCII text	Code Set A
Symbol size	16x16	23 digits
Standard	IEC24720 and IEC16022	IEC8859-1

Code content	*Content*	*Digit*	*Example*
	Module serial number	1 – 5	71549
	Module material number	6 - 11	142846
	Production order number	12 - 19	55054991
	Date code (production year)	20 – 21	15
	Date code (production week)	22 – 23	30
Example	71549142846550549911530	71549142846550549911530	

图 **4**

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