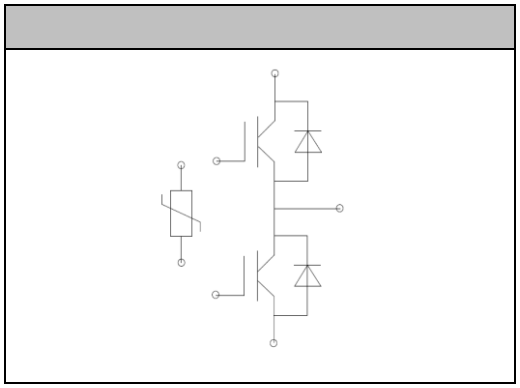


1200V
225A

- Motion/sevo control
- High frequency switching application
- UPS (Uninterruptible Power Supplies)
- Welding machine



- Low V_{CE}(sat) with Trench technology
- Low switching losses especially Eoff
- V_{CE}(sat) with positive temperature coefficient
- High short circuit capability(10us)
- Including ultra fast & soft recovery anti-parallel FWD
- Low inductance package
- Maximum junction temperature 175℃

●

Collector-Emitter Voltage	V_{CES}	V_{GE}=0V, I_C =1mA, T_{vj}=25℃	1200	V
Continuous Collector Current	I_C	T_C=100℃	225	A
Repetitive Peak Collector Current	I_{CRM}	t_p=1ms	450	A
Gate-Emitter Voltage	V_{GES}	T_{vj}=25℃	±20	V
Total Power Dissipation	P_{tot}	T_C=25℃ T_{vjmax}=175℃	1540	W

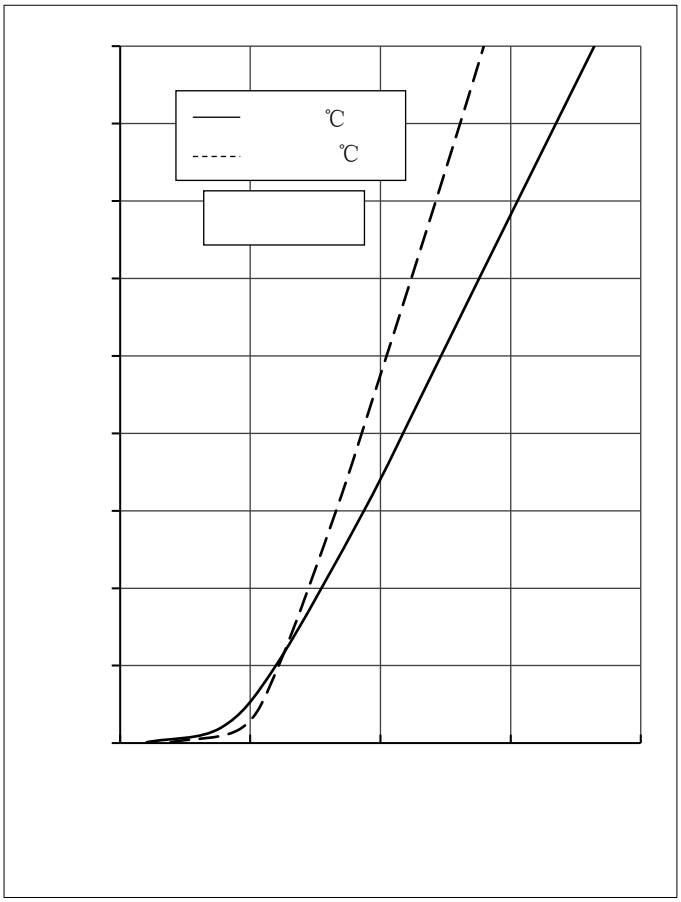
●

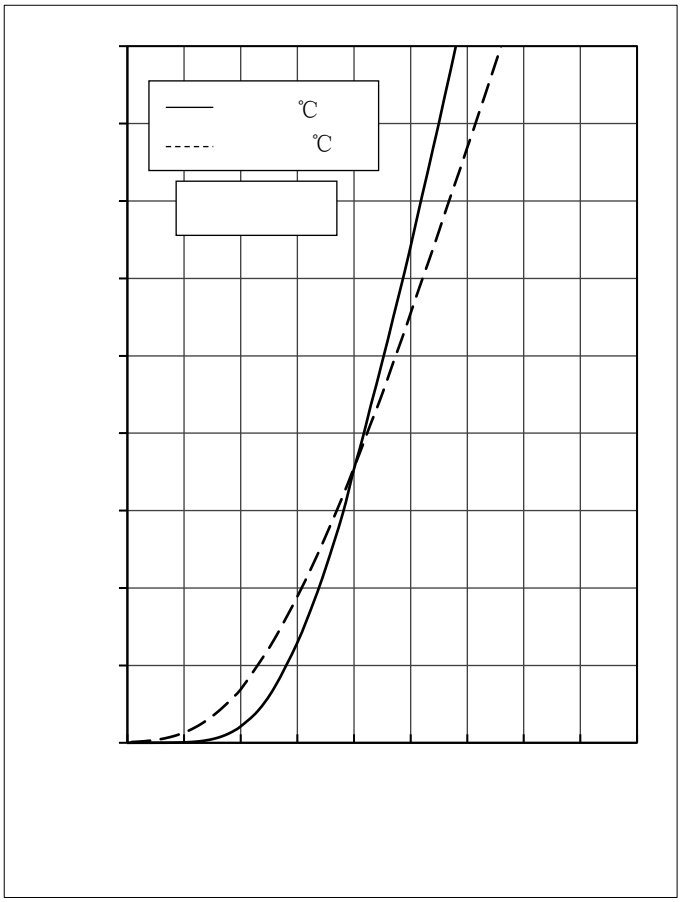
Repetitive Peak Reverse Voltage	V_{RRM}	T_{vj}=25℃	1200	V
Continuous DC Forward Current	I_F		225	A
Repetitive Peak Forward Current	I_{FRM}	t_p=1ms	450	A
I^2t-value	I^2t	V_R=0V,t_p=10ms,T_{vj}=125℃	11000	A^2s
		V_R=0V,t_p=10ms,T_{vj}=150℃	8500	

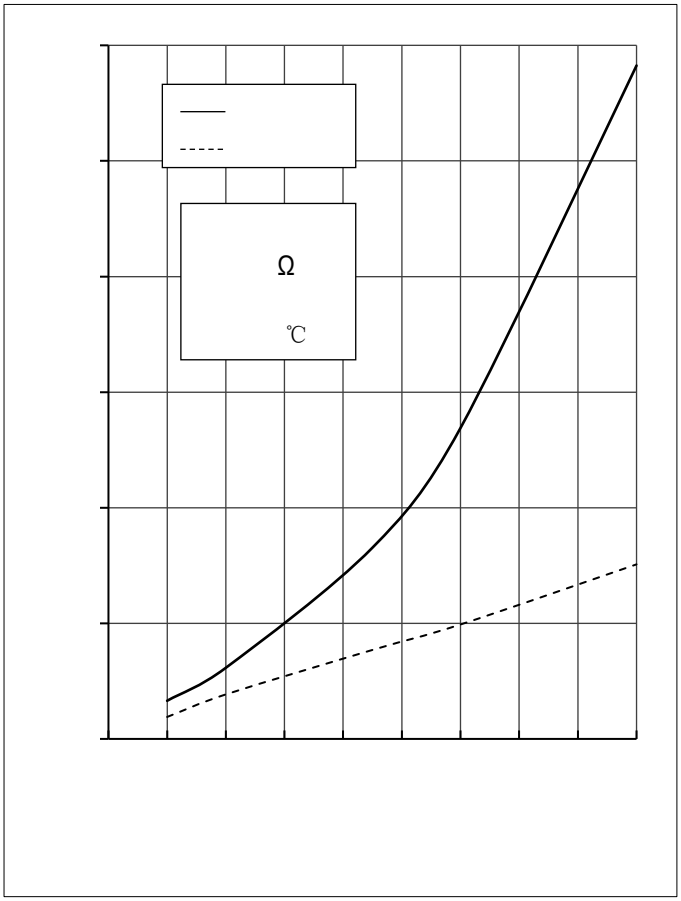
Forward Voltage	V_F	I_F=225A,T_{vj}=25℃		2.15		V
		I_F=225A,T_{vj}=125℃		1.95		
		I_F=225A,T_{vj}=150℃		1.90		
Recovered Charge	Q_{rr}	I_F=225A V_R=600V 0A/us		11.9		uC
Peak Reverse Recovery Current	I_{rr}			65		A
				4.3		mJ
				51.1		uC
		0A/us		103		A

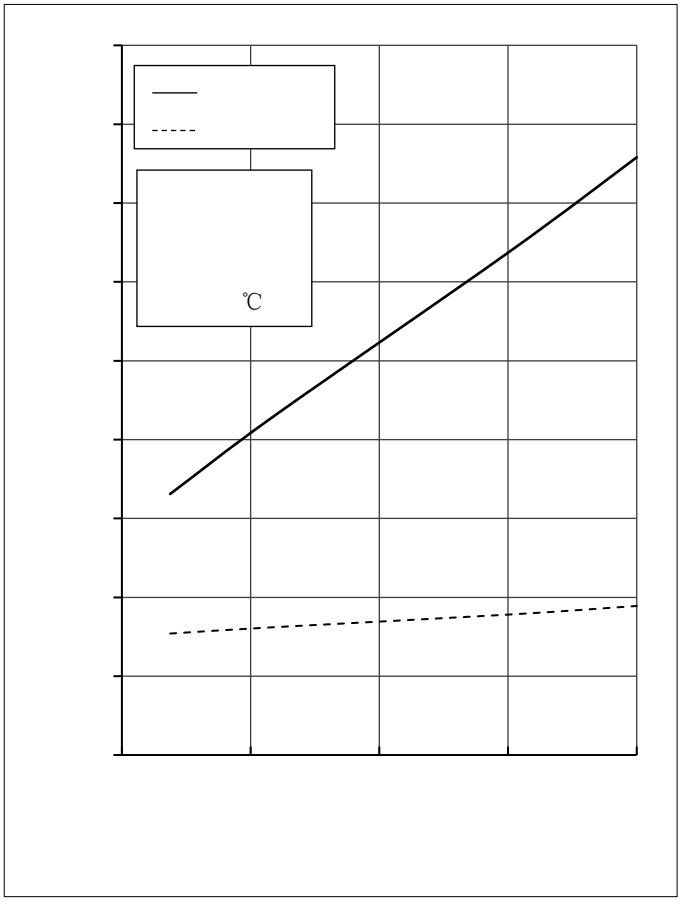
●

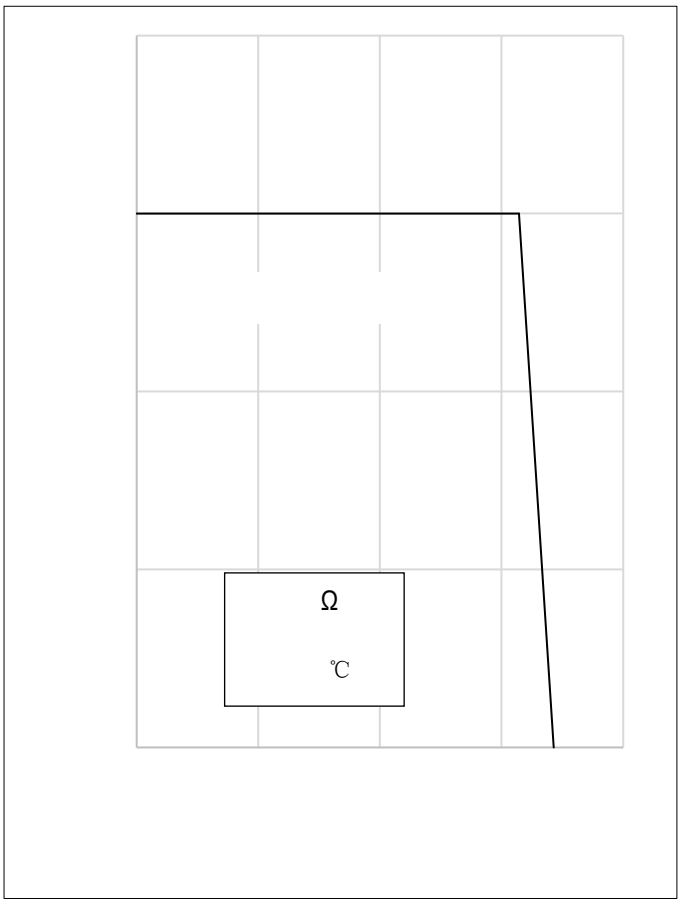
Isolation voltage	V_{isol}	t=1min,f=50Hz	2500			V
Maximum Junction Temperature	T_{jmax}				175	℃
Operating Junction Temperature	$T_{vj\ op}$		-40		150	℃
Storage Temperature	T_{stg}		-40		125	℃
Thermal Resistance Junction-to Case	$R_{\theta JC}$	per IGBT			0.12	K/W
		per Diode			0.19	
Thermal Resistance Case-to Sink	$R_{\theta CS}$	Conductive grease applied		0.009		K/W
Comparative Tracking Index	CTI		200			
Module ElectrodesTorque	M_t	Recommended(M6)	4.0		5.0	N·m
Module-to-SinkTorque	M_s	Recommended(M5)	3.0		6.0	N·m
Weight of Module	G			345		g

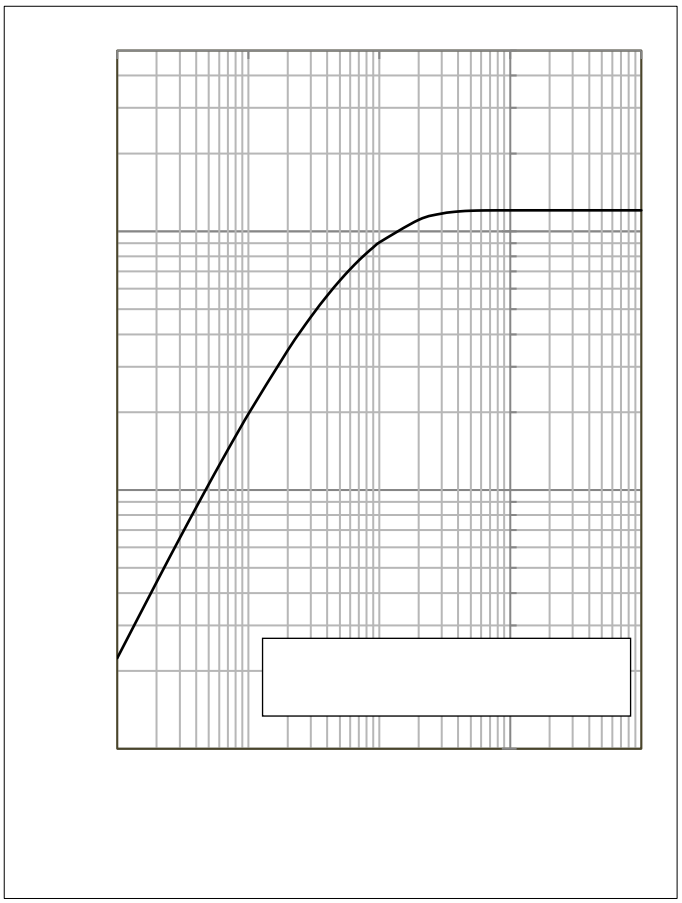

℃
℃

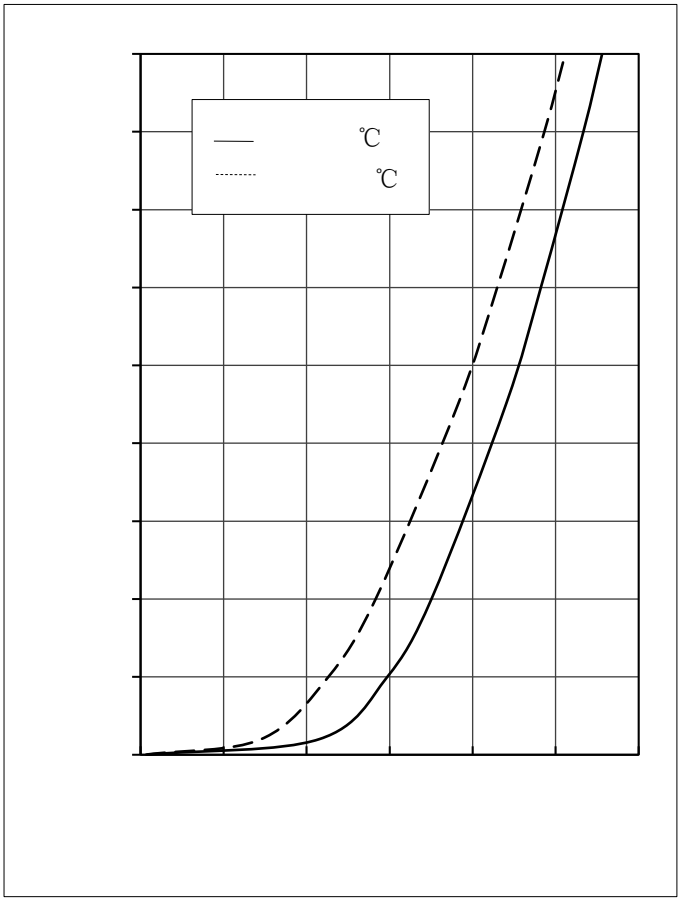

℃
℃

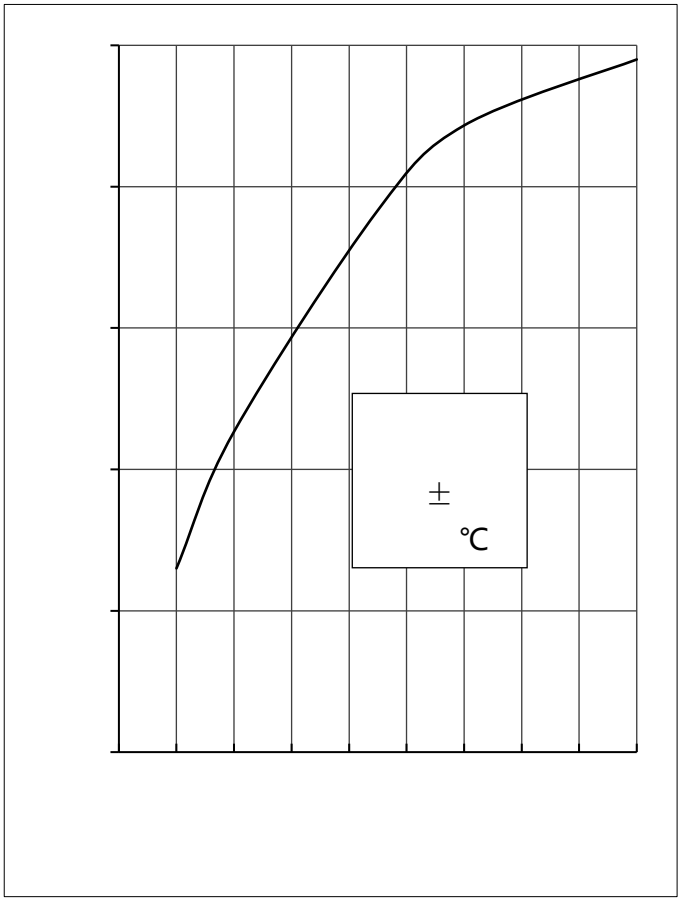

Ω
℃

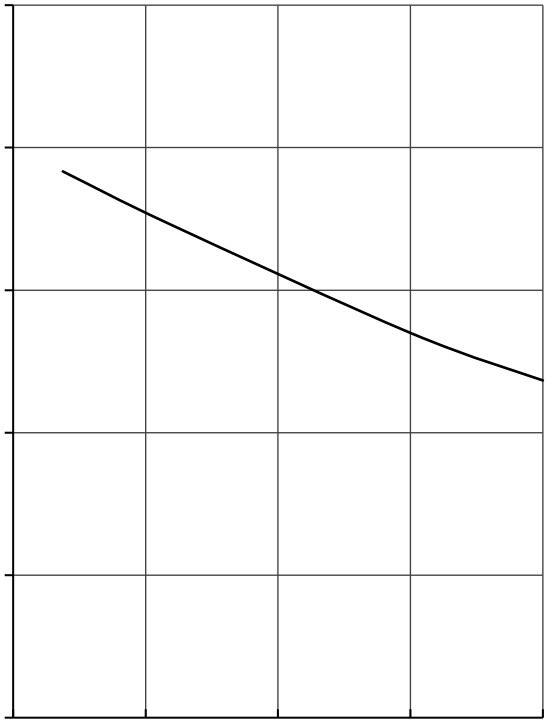

℃


Ω
℃

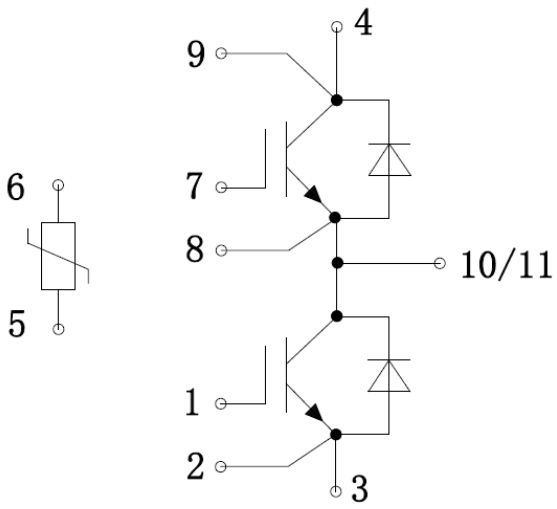



℃
℃

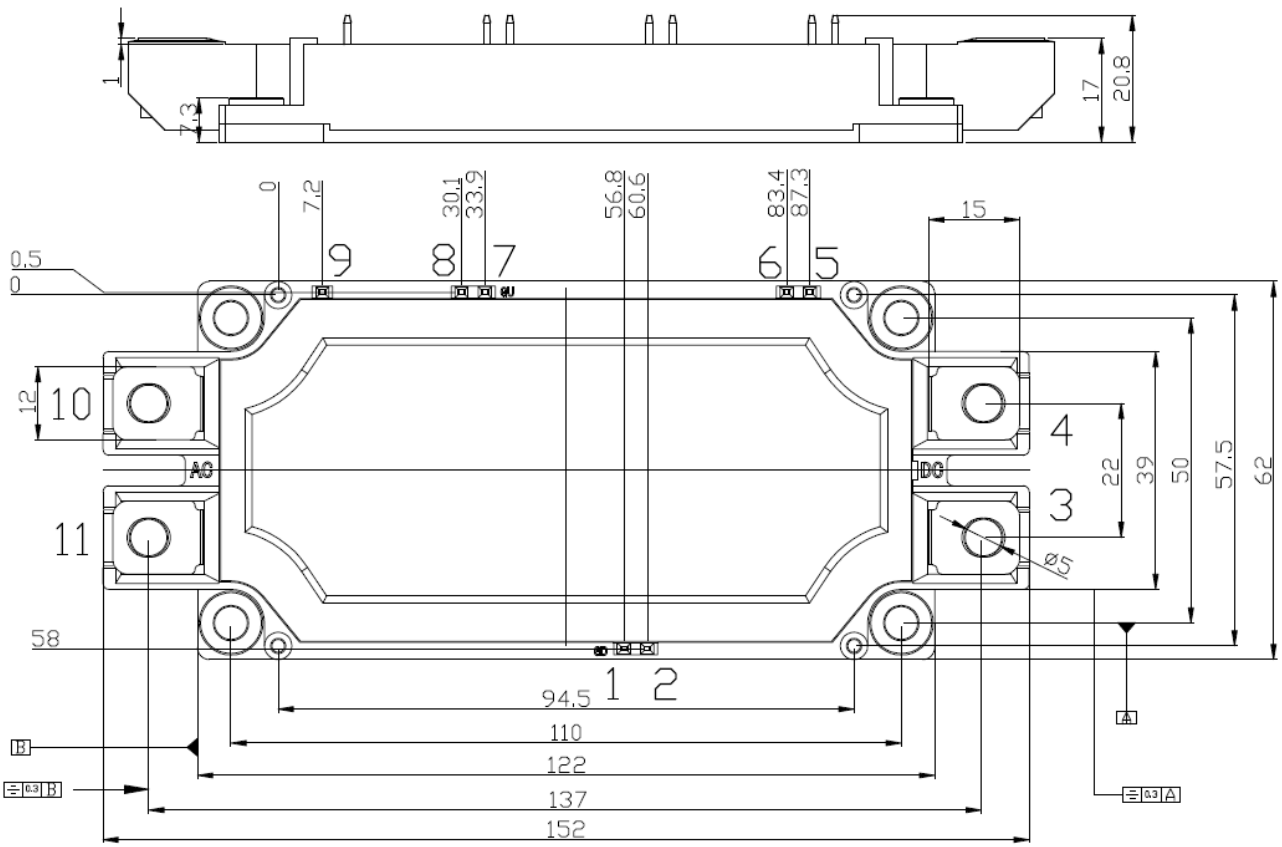

±
℃



●


4
9
7
8
10/11
6
5
1
2
3

●


1
7.3
17
20.8
0
7.2
30.1
33.9
56.8
60.6
83.4
87.3
15
0.5
0
9
8
7
6
5
12
10
AC
DC
4
3
11
22
39
50
57.5
62
Ø5
58
1
2
94.5
110
122
137
152

Disclaimer