**Features :**

- Isolated mounting base 2500V~
- Pressure contact technology with increased power cycling capability
- Space and weight savings

**Typical Applications**

- Welding

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>J</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>T(RMS)</sub>	RMS on-state current	The two chips are assembled in reverse parallel and are continuous on current. T <sub>water</sub> =30°C, 6L/min				970	A
		The two chips are assembled in reverse parallel ,usage rate 10%, twenty flowing on current continuously. T <sub>water</sub> =30°C, 6L/min				1470	A
V <sub>DRM</sub> /V <sub>RRM</sub>	Repetitive peak off-state voltage Repetitive peak reverse voltage	tp=10ms	125			1600	V
I <sub>DRM</sub> I <sub>RRM</sub>	Repetitive peak current	at V <sub>DRM</sub> at V <sub>RRM</sub>	125			35	mA
I <sub>TSM</sub>	Surge on-state current	10ms half sine wave V <sub>R</sub> =60%V <sub>RRM</sub>	125			14.0	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					980	10 <sup>3</sup> A <sup>2</sup> s
V <sub>TO</sub>	Threshold voltage		125			0.90	V
r <sub>T</sub>	On-state slope resistance					0.34	mΩ
V <sub>TM</sub>	Peak on-state voltage	I <sub>TM</sub> =1710A	25			1.80	V
dV/dt	Critical rate of rise of off-state voltage	V <sub>DM</sub> =67%V <sub>DRM</sub>	125			800	V/μs
di/dt	Critical rate of rise of on-state current	Gate source 1.5A t <sub>r</sub> ≤0.5μs Repetitive	125			100	A/μs
I <sub>GT</sub>	Gate trigger current	V <sub>A</sub> =12V, I <sub>A</sub> =1A	25	30		200	mA
V <sub>GT</sub>	Gate trigger voltage			0.8		3.0	V
I <sub>H</sub>	Holding current			20		200	mA
V <sub>GD</sub>	Non-trigger gate voltage	V <sub>DM</sub> =67%V <sub>DRM</sub>	125			0.2	V
I <sub>GD</sub>	Non-trigger gate current	V <sub>DM</sub> =67%V <sub>DRM</sub>	125			10.0	mA
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	Single side cooled, per chip. DC				0.085	°C/W
R <sub>th(c-w)</sub>	Thermal resistance case to water	Single side cooled, per chip. (6L/min)				0.051	°C/W
V <sub>iso</sub>	Isolation voltage	50Hz,R.M.S,t=1min,I <sub>iso</sub> :1mA(MAX)		2500			V
F <sub>m</sub>	Terminal connection torque(M10)			10.0		12.0	N·m
	Mounting torque(M6)			4.5		6.0	N·m
T <sub>vj</sub>	Junction temperature			-40		125	°C
T <sub>stg</sub>	Stored temperature			-40		125	°C
T <sub>water</sub>	Water temperature	Water flow=6L/min		-		30	°C
-	Water Pressure loss					36	kPa
W <sub>t</sub>	Weight					1750	g
Outline		M14					

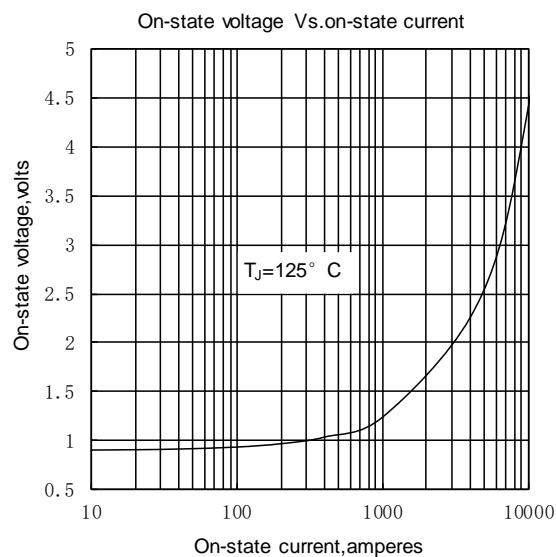


Fig.1

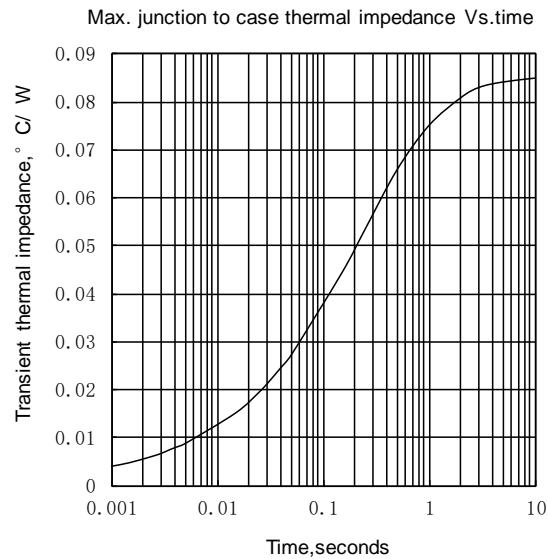


Fig.2

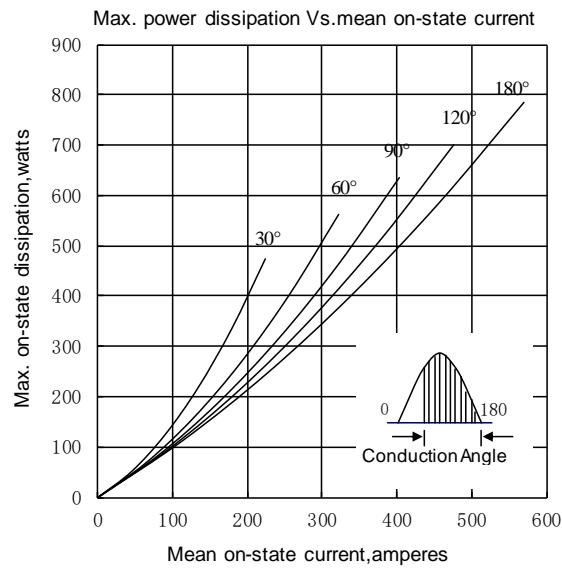


Fig.3

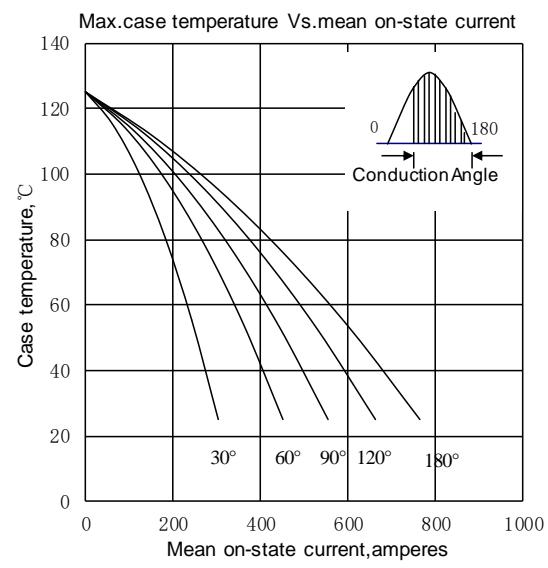


Fig.4

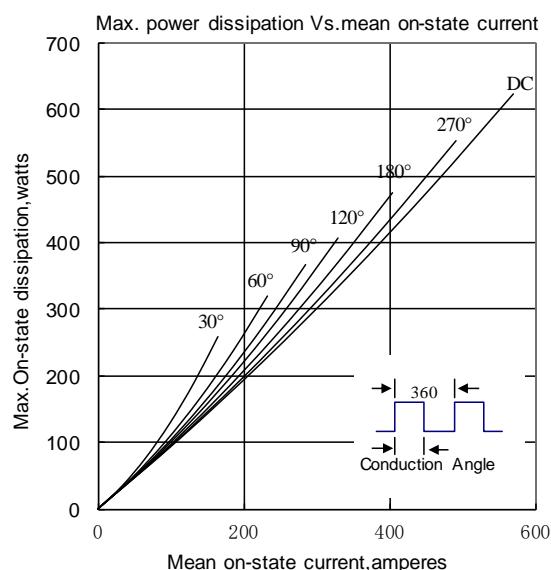


Fig.5

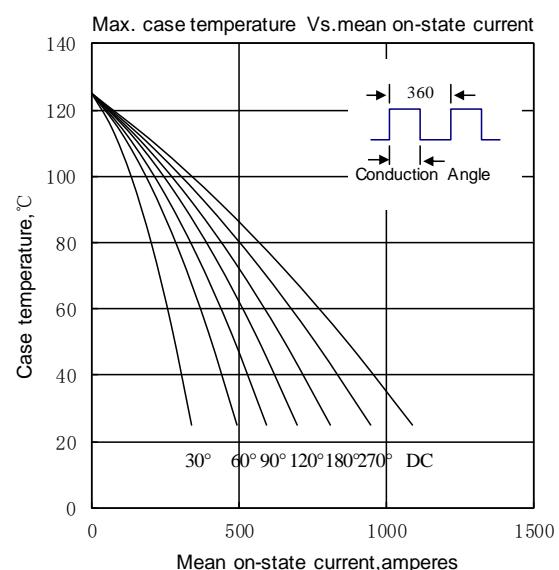


Fig.6

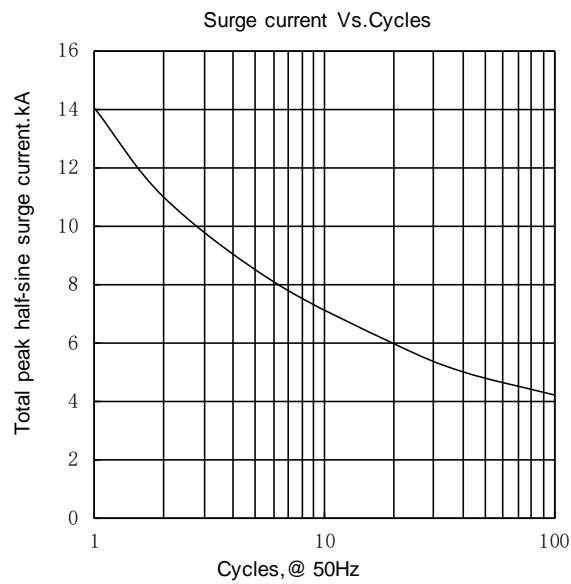


Fig.7

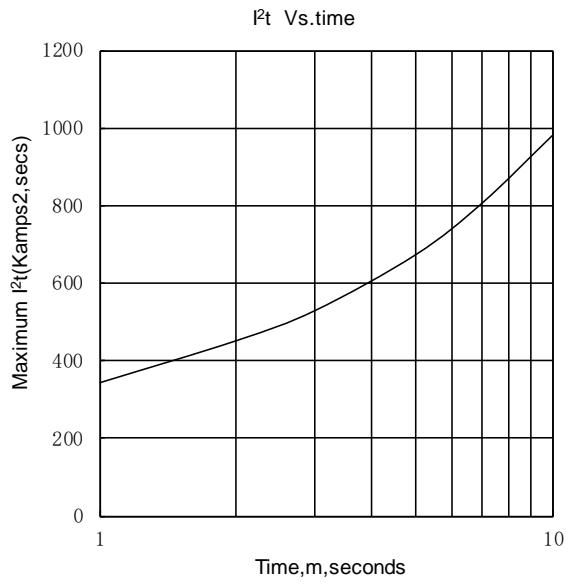


Fig.8

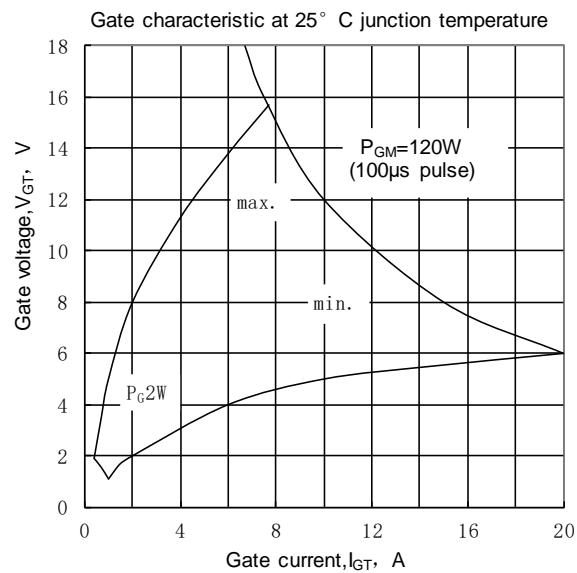


Fig.9

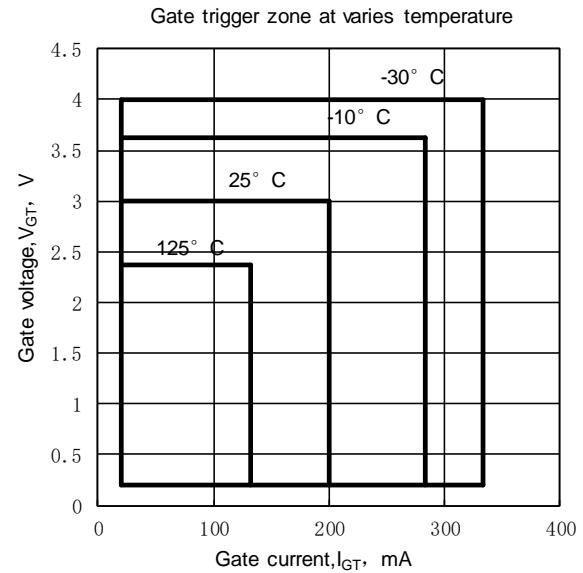


Fig.10

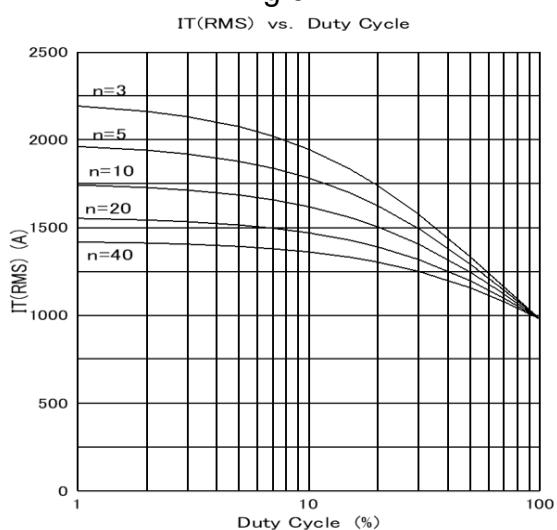


Fig.11

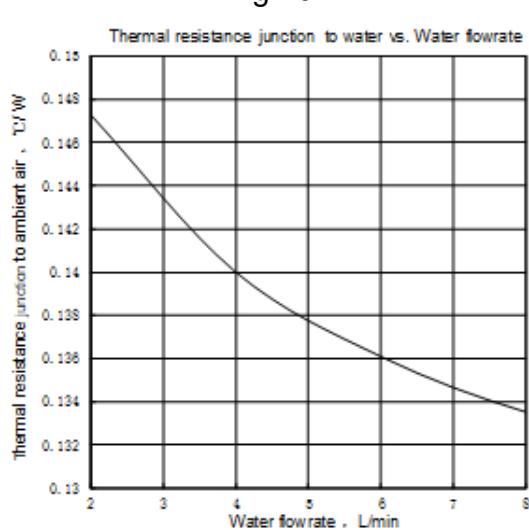


Fig.12

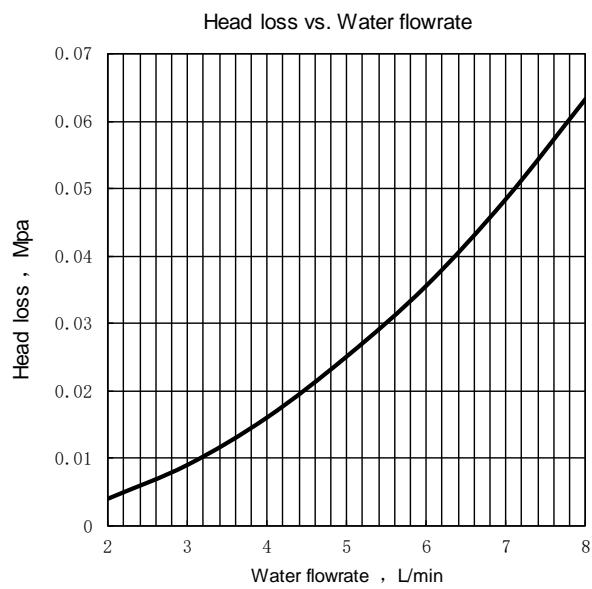


Fig.13

