Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ **2340A**
V_{RRM} **1100~2000V**
t_{rr} **7.0μs**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T_j(℃)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	T_C=70℃	125			2340	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		125	1100		2000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		125			150	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		125			31	kA
I^2t	I^2t for fusing coordination						4805	A^2s*10^3
V_{FO}	Threshold voltage			125			1.10	V
r_F	Forward slope resistance						0.15	mΩ
V_{FM}	Peak forward voltage	I_{FM}=5000A, F=35kN		125			1.85	V
I_{rm}	Reverse recovery current	I_{FM}=2000A,tp=2000μs, -di/dt=60A/μs, V_R=50V		125		228		A
t_{rr}	Reverse recovery time					7		μs
Q_{rr}	Recovery charge					800		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC· double side cooled Clamping force35kN					0.012	℃/W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.003	
F_m	Mounting force				30		40	kN
T_{stg}	Stored temperature				-40		160	℃
W_t	Weight					820		g
Outline	P44							

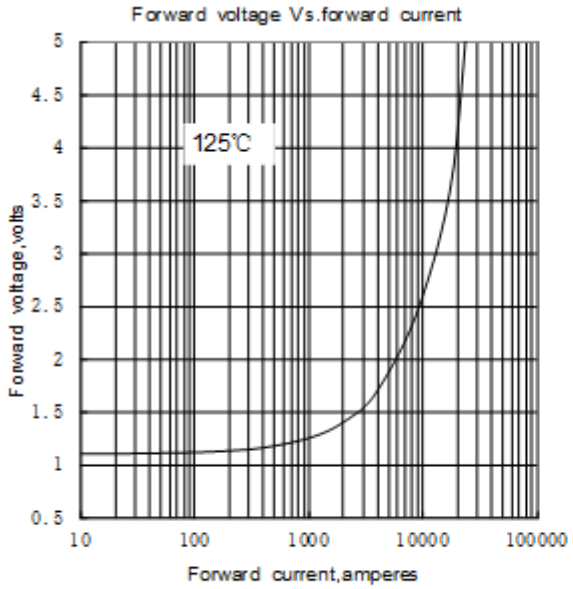


Fig.1

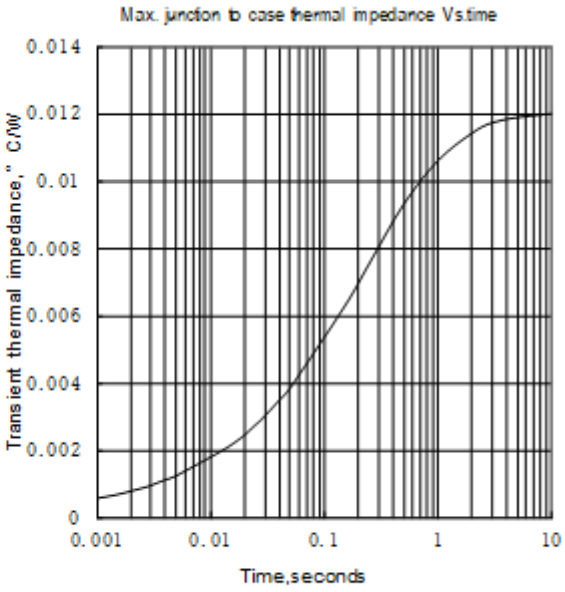


Fig.2

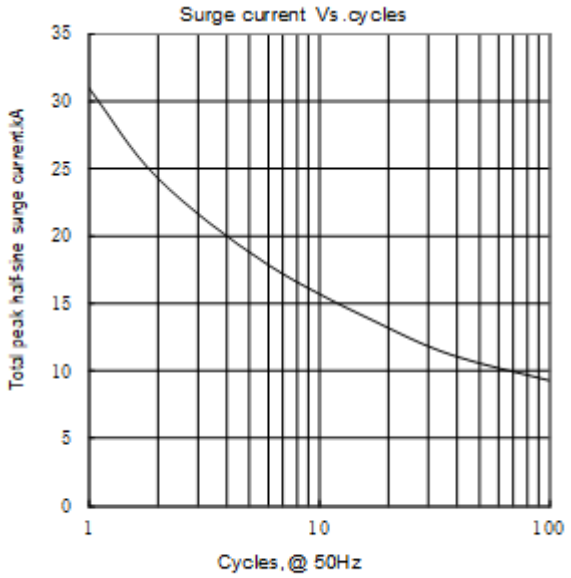
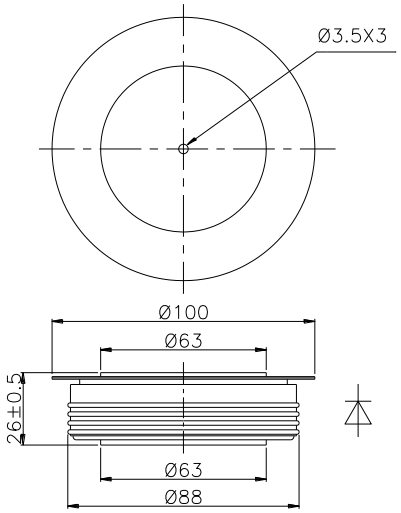


Fig.3



NIps reserves the right to change specifications without notice.