

Features :

- Low forward voltage drop
- High reverse voltage
- Hermetic metal cases with ceramic insulators

Typical Applications

- All purpose high power rectifier diodes
- High power resistance welding equipment
- Non-controllable and half-controllable rectifiers
- Controlled rectifiers

$I_{F(AV)}$	4520 A
V_{RRM}	1100~2000 V
I_{FSM}	44 kA
I^2t	9680 10³A²S



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _j (°C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	T _c =85°C	175			4520	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		175	1100		2000	V
I_{RRM}	Repetitive peak current	at V _{RRM}		175			160	mA
I_{FSM}	Surge forward current	10ms half sine wave		175			44	kA
I^2t	I ² t for fusing coordination	V _R =0.6V _{RRM}					9680	A ² s*10 ³
V_{FO}	Threshold voltage			175			0.85	V
r _F	Forward slope resistance						0.073	mΩ
V_{FM}	Peak forward voltage	I _{FM} =5000A, F=35kN		175			1.22	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V		175		5000		μC
R _{th(j-c)}	Thermal resistance Junction to case	DC· double side cooled Clamping force 35kN					0.012	°C /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		175	°C
W _t	Weight					880		g
Outline	P44							

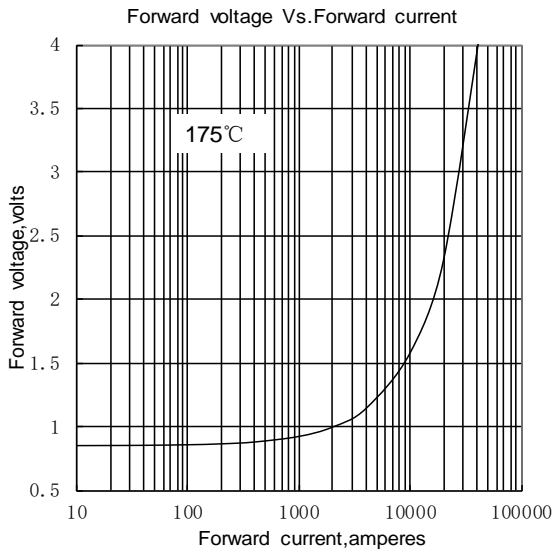


Fig.1

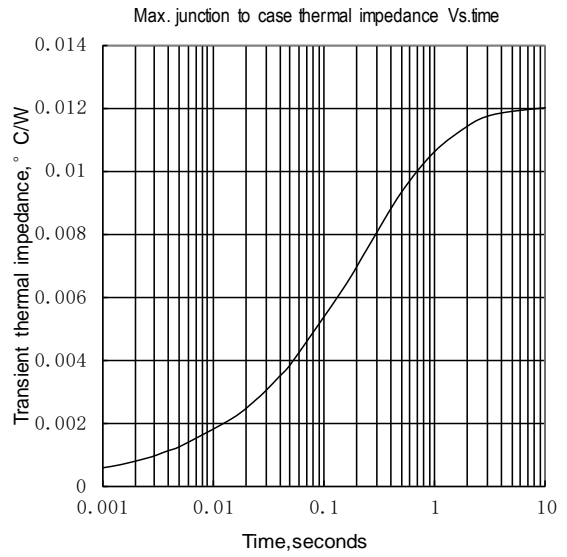


Fig.2

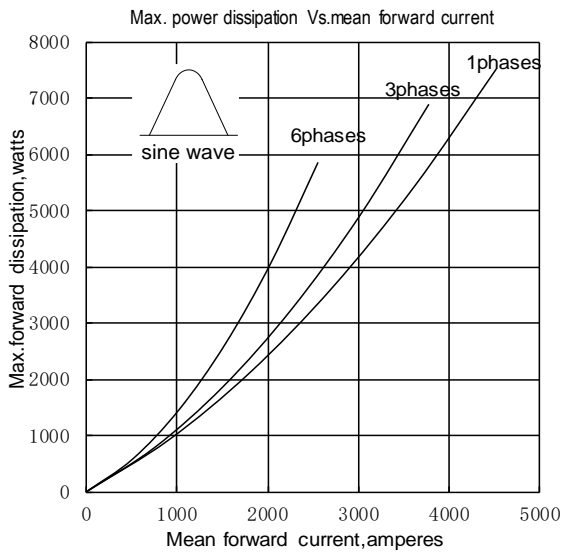


Fig.3

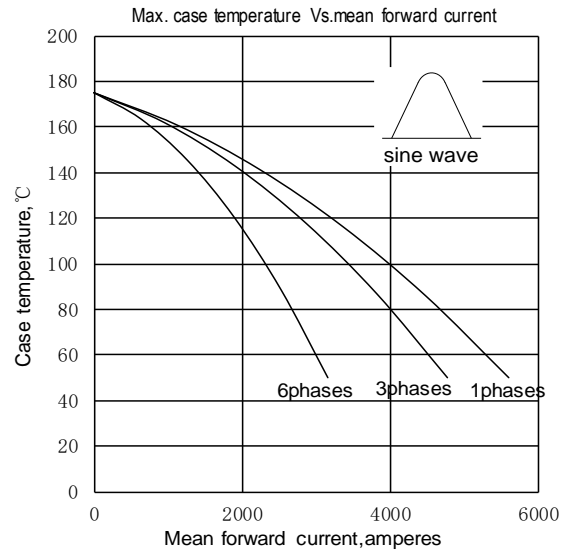


Fig.4

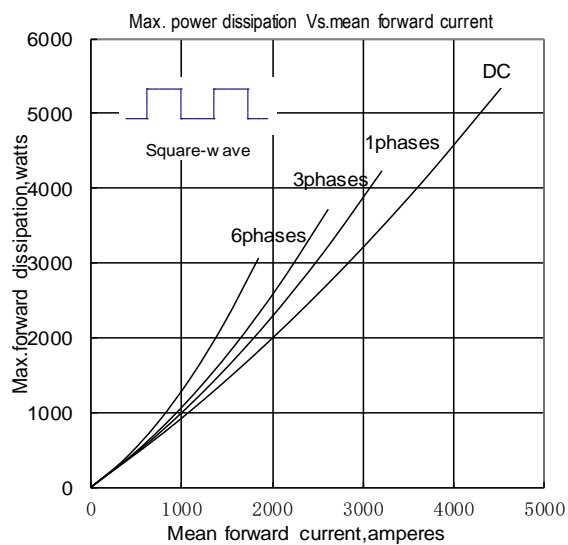


Fig.5

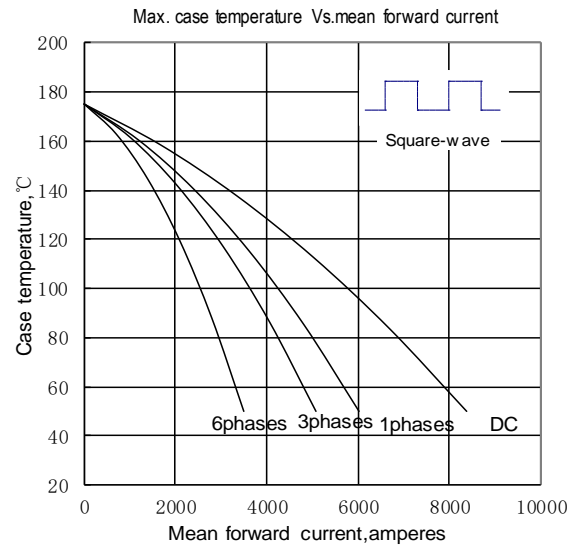


Fig.6

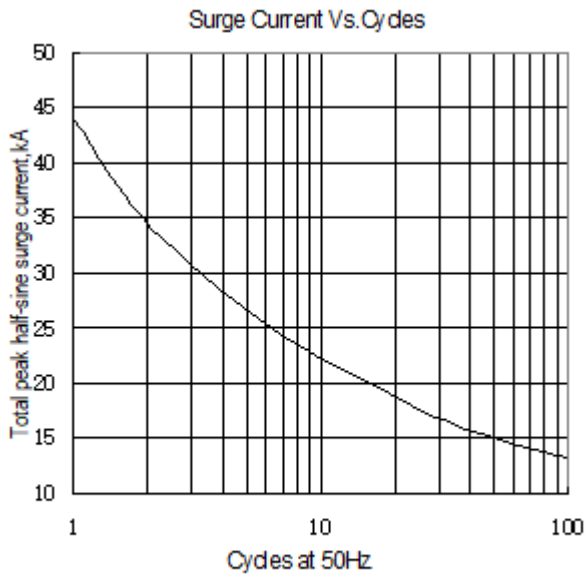
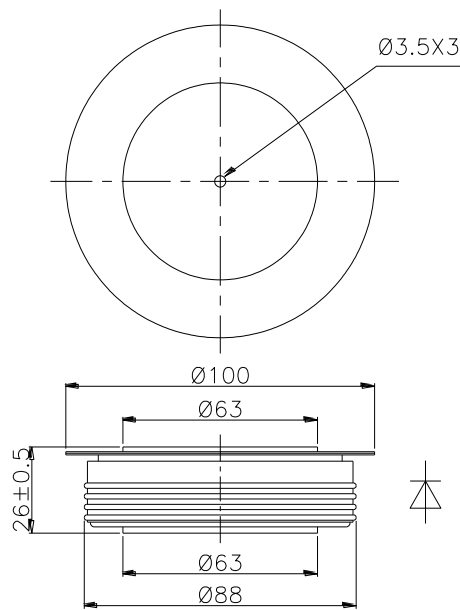


Fig.7



Nlps reserves the right to change specifications without notice.