

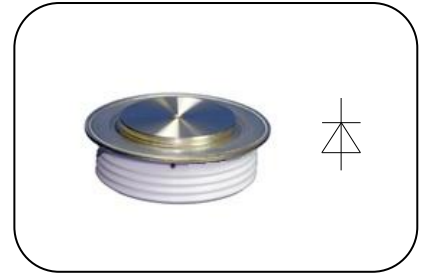
Features

- 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

$I_{F(AV)}$	1600 A
V_{RRM}	2100~3000 V
I_{FSM}	32 kA
I^2t	5120 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	150			1600	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	150	2100		3000	V
I_{RRM}	Repetitive peak current	at V _{RRM}	150			80	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			32	kA
I^2t	I ² t for fusing coordination	V _R =0.6V _{RRM}				5120	A ² s*10 ³
V_{FO}	Threshold voltage		150			0.78	V
r_F	Forward slope resistance					0.20	mΩ
V_{FM}	Peak forward voltage	I _{FM} =5000A, F=24kN	25			1.60	V
Q_{rr}	Recovery charge	I _{FM} =2000A, tp=2000μs, di/dt=-20A/μs, V _R =50V	150		3500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC: double side cooled Clamping force 24kN				0.019	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005	
F_m	Mounting force			19		26	kN
T_{stg}	Stored temperature			-40		150	°C
W_t	Weight				380		g
Outline	P36						

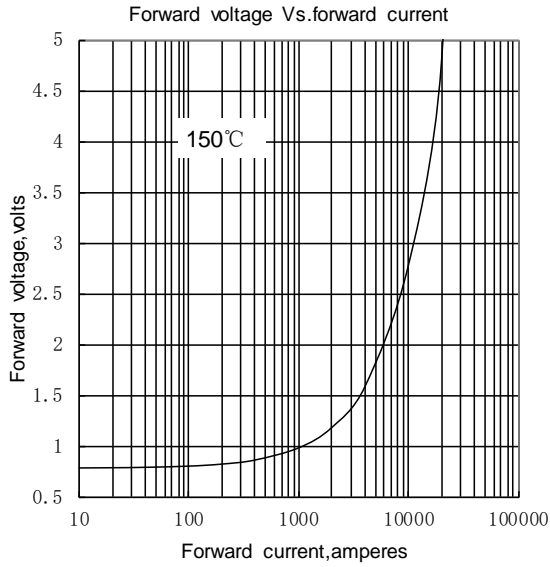


Fig.1

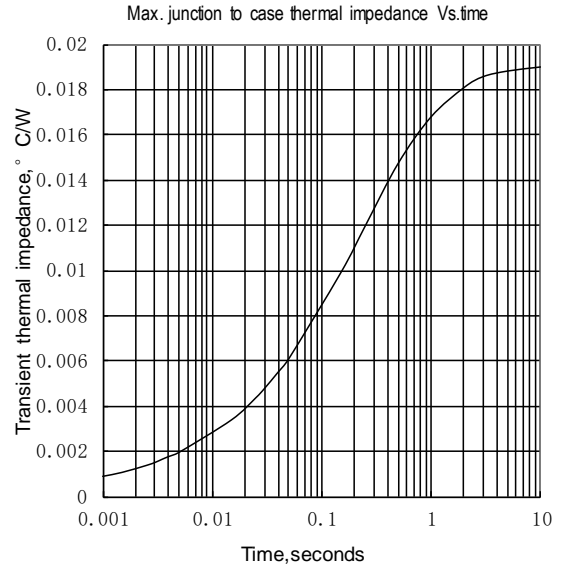


Fig.2

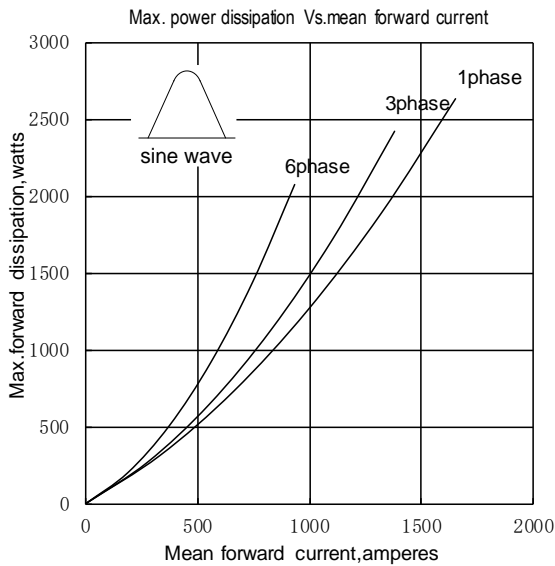


Fig.3

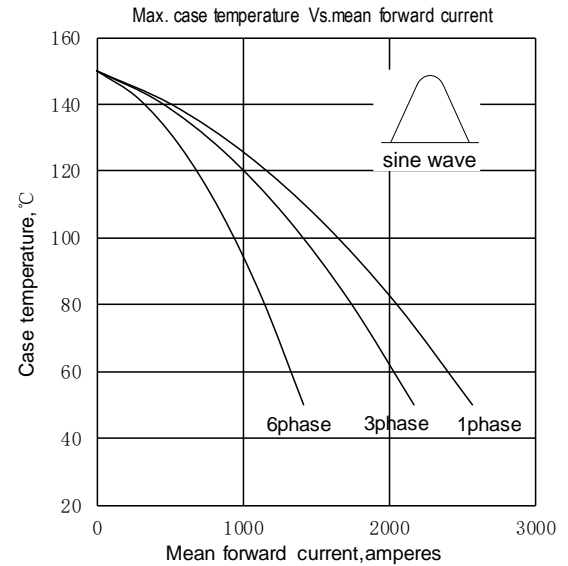


Fig.4

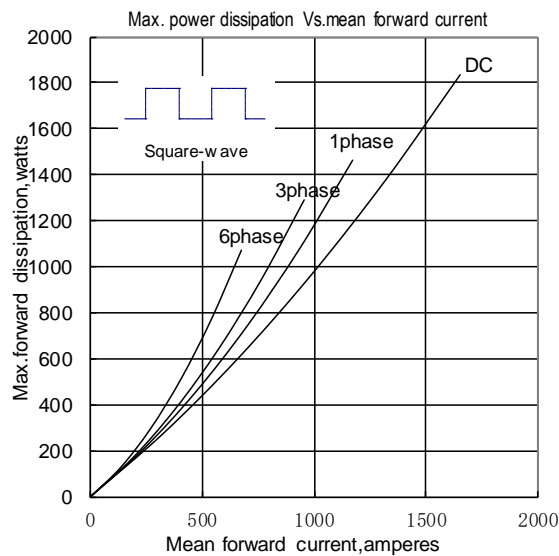


Fig.5

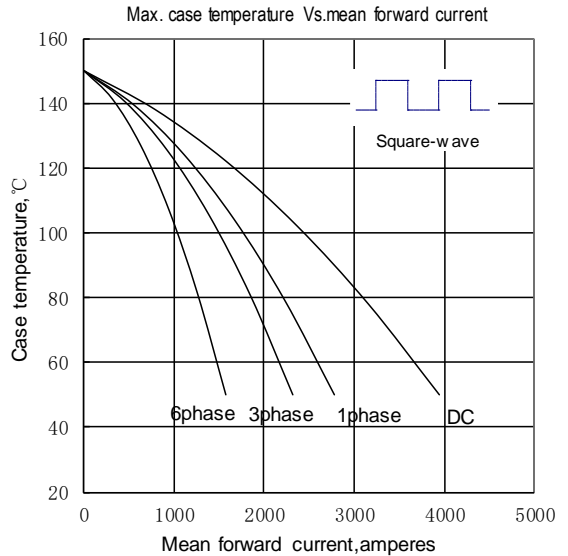


Fig.6

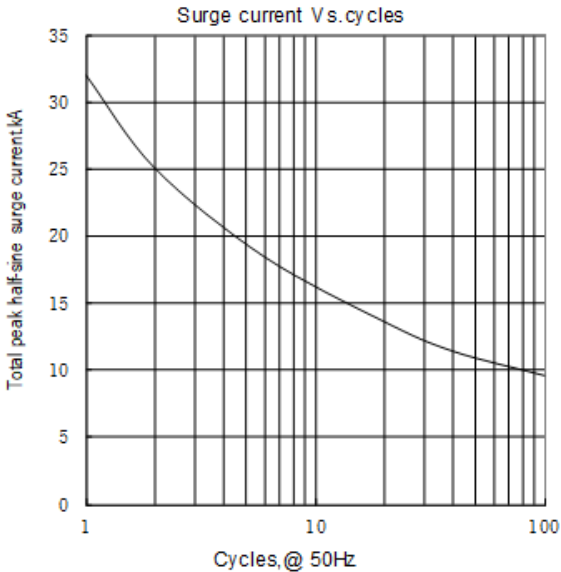
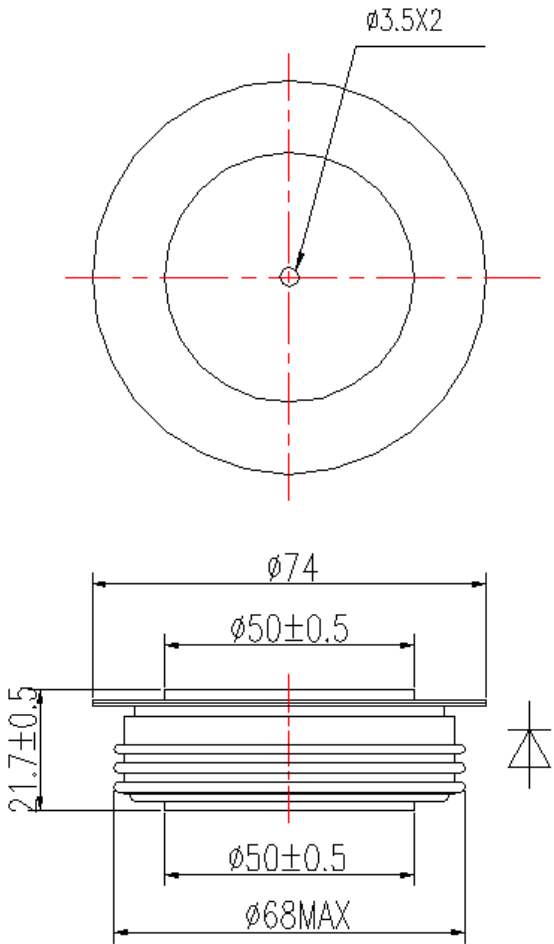


Fig.7



Nlps reserves the right to change specifications without notice.