

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

$I_{F(AV)}$ 860A
 V_{RRM} 200~1000V
 I_{FSM} 8 kA
 I^2t 320 10³A²S



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T _i (°C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	$T_C=85^{\circ}C$	190			860	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		190	200		1000	V
I_{RRM}	Repetitive peak current	at V_{RRM}		190			16	mA
I_{FSM}	Surge forward current	10ms half sine wave		190			8	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					320	A ² S*10 ³
V_{FO}	Threshold voltage			190			0.80	V
r_F	Forward slope resistance						0.34	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=1930A, F=5.0kN$		190			1.46	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$		190		1400		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC: double side cooled Clamping force 5.0kN					0.080	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.020		
F_m	Mounting force				3.3		5.5	kN
T_{stg}	Stored temperature				-40		190	°C
W_t	Weight					60		g
Outline	P32							

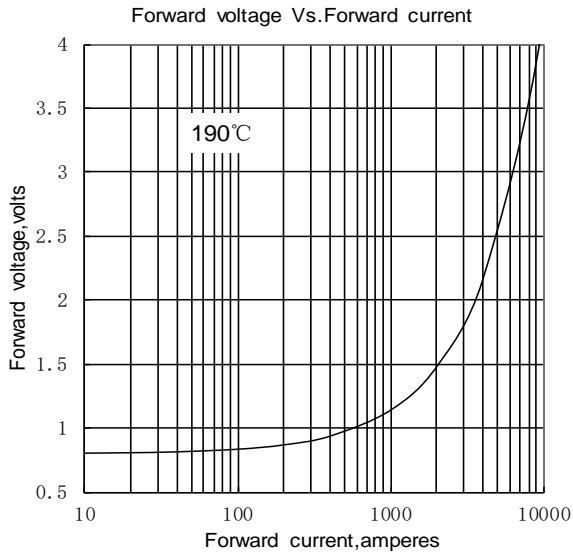


Fig1

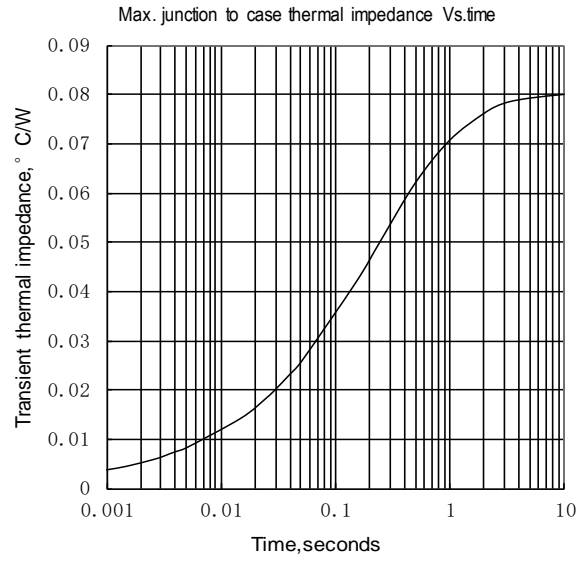


Fig2

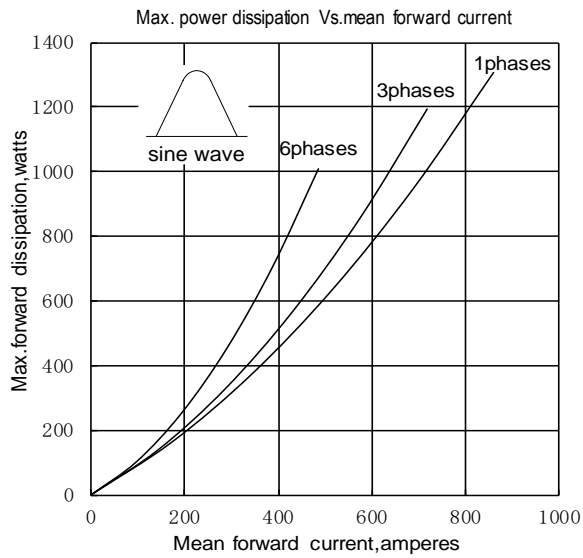


Fig3

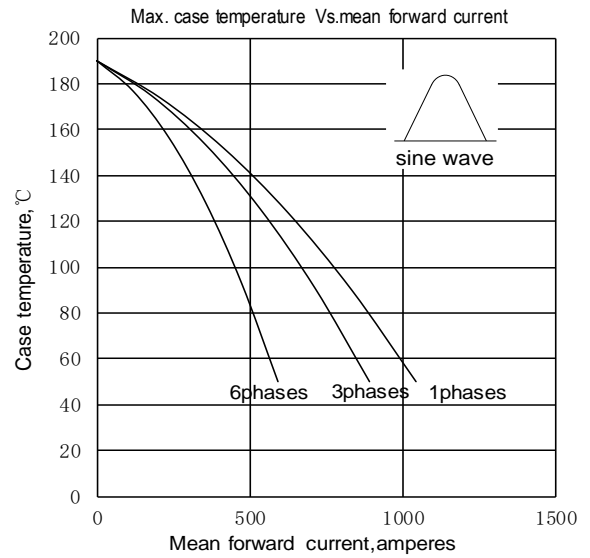


Fig4

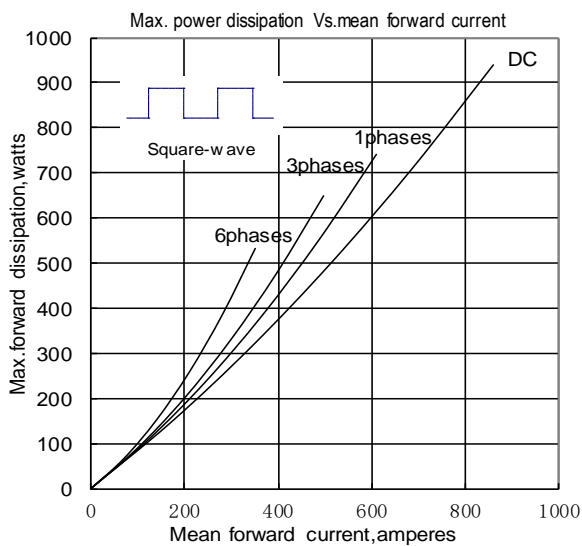


Fig5

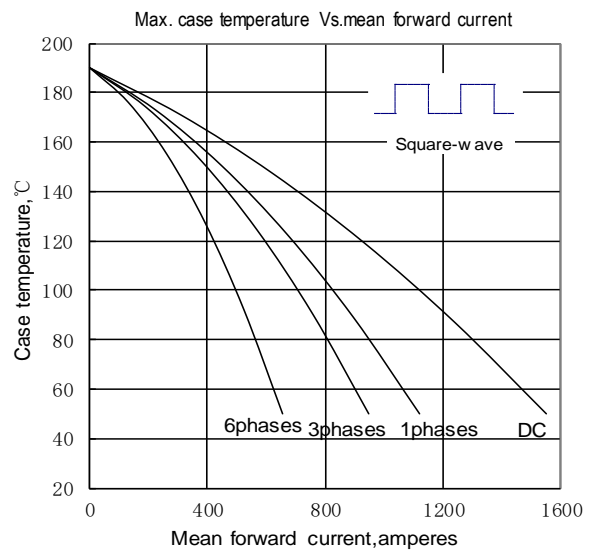


Fig6

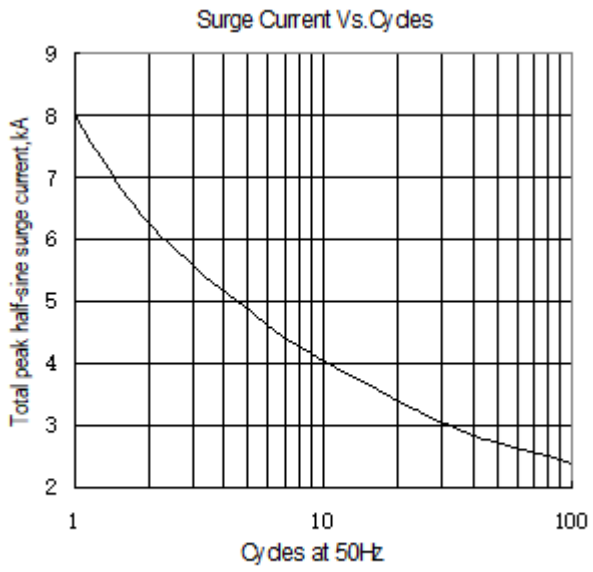
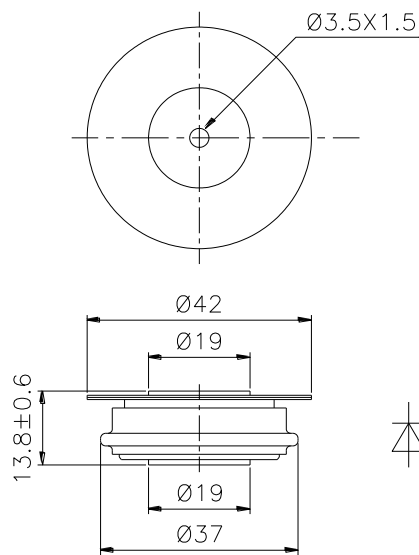


Fig.7



Nlps reserves the right to change specifications without notice.