

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

$I_{F(AV)}$ 920 A
 V_{RRM} 4300~5000 V
 I_{FSM} 6 kA
 I^2t 180 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			920	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	150	4300		5000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			50	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			6	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				180	A ² s*10 ³
V_{FO}	Threshold voltage		150			0.99	V
r_F	Forward slope resistance					0.45	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=1000A, F=20kN$	150			1.44	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$	150		2500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC: double side cooled Clamping force 15.0kN				0.035	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.008	
F_m	Mounting force			10		20	kN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				240		g
Outline	P39						

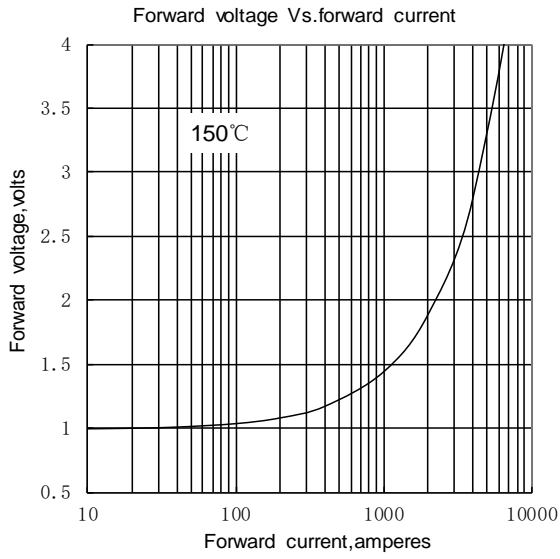


Fig.1

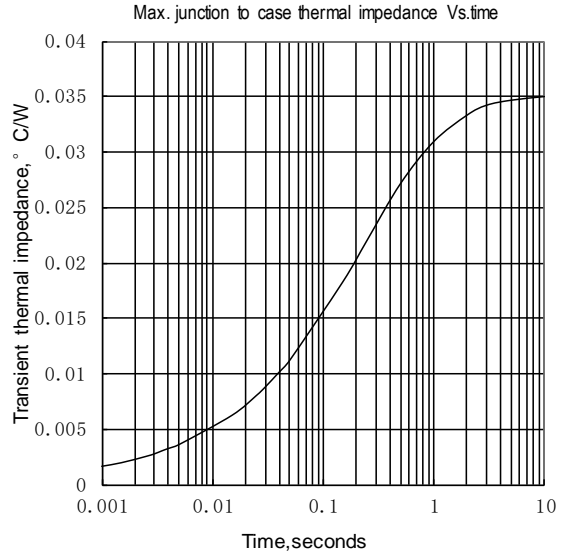


Fig.2

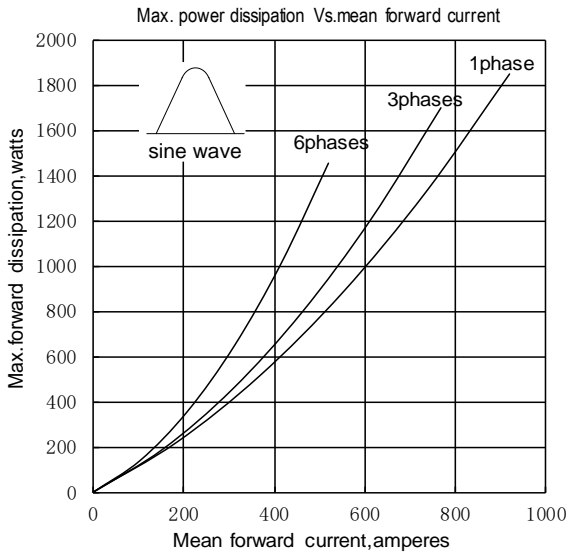


Fig.3

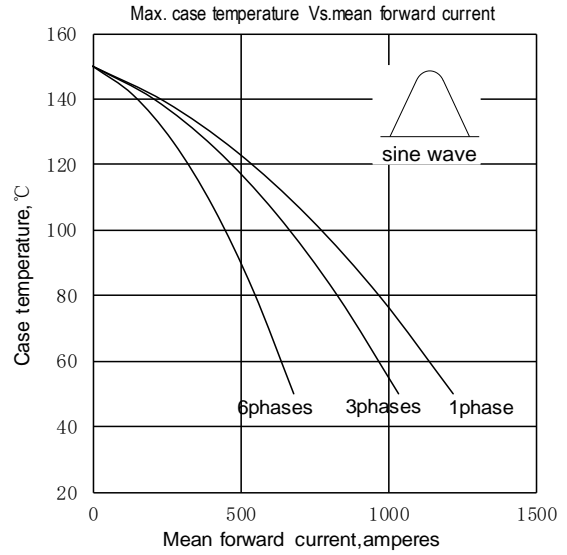


Fig.4

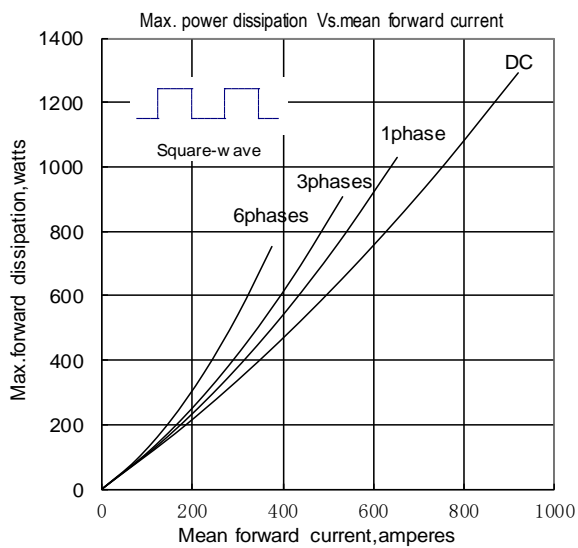


Fig.5

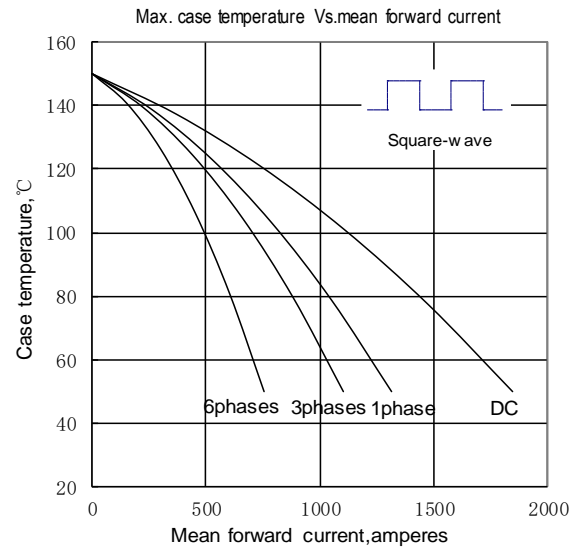


Fig.6

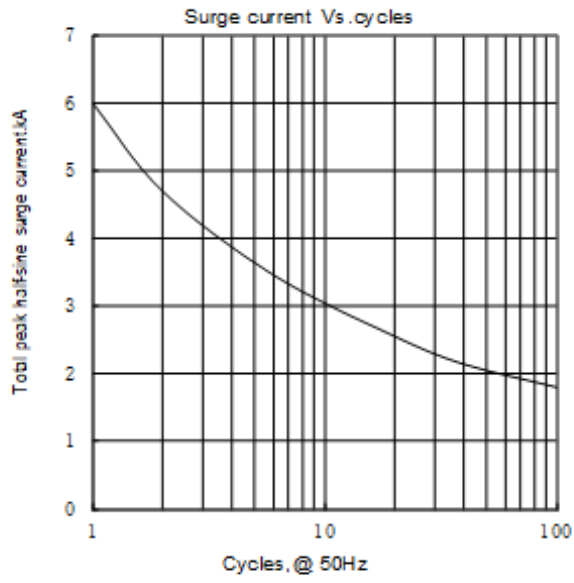
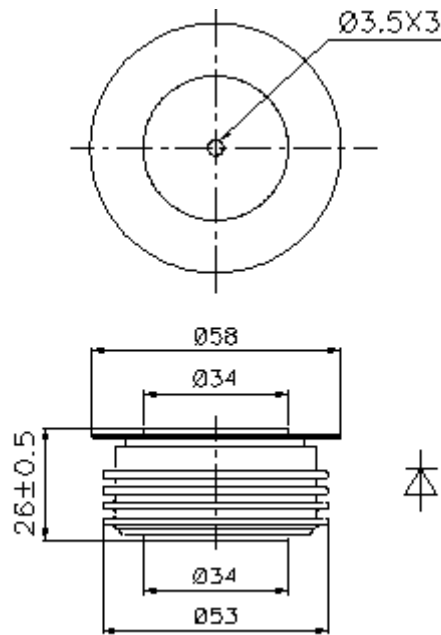


Fig.7



Nlps reserves the right to change specifications without notice.