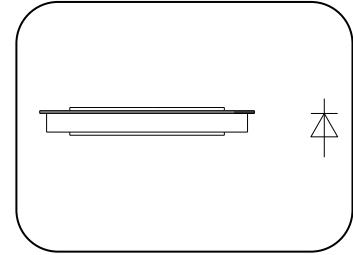


Features

- Optimized for high current rectifiers
- Very low threshold voltage and slop resistance
- Very low thermal resistance

$I_{F(AV)}$ 5000 A
 V_{RRM} 200~400 V
 I_{FSM} 45 kA
 I^2t 10000 10³A²s



Typical Applications

- High current application For Welders up to 5000Hz
- Electrode plating

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 =100°C	175			5000	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM} = V_{RRM} + 100V$	175	200		400	V
I_{RRM}	Repetitive peak current	$V_{RM} = V_{RRM}$	175			50	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R = 0V_{RRM}$	175			45	kA
I^2t	I ² T for fusing coordination					10000	A ² s*10 ³
V_{FO}	Threshold voltage	$I_{FM} = 5000 \sim 15000A$	175			0.80	V
r_F	Forward slop resistance					0.030	mΩ
V_{FM}	Max Peak on-state voltage	$I_{FM} = 5000A, F = 30kN$	25			1.05	V
t_{rr}	Reverse recovery time	$I_{FM} = 1000A, tp = 2000\mu s, di/dt = -20A/\mu s,$ $V_R = 50V$	175			4.0	μs
Q_{rr}	Recovery charge		175			200	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC double side cooled Clamping force 30.0kN				0.010	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005	
F_m	Mounting force			20	30	40	kN
T_{stg}	Stored temperature			-40		175	°C
W_t	Weight				150		g
Outline	P56						

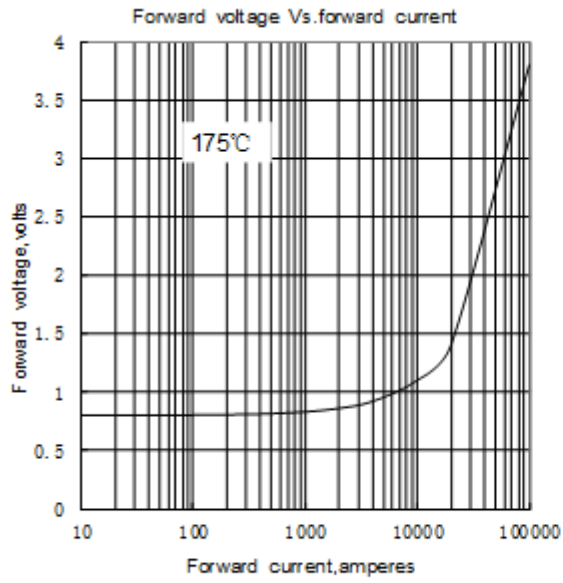


Fig.1

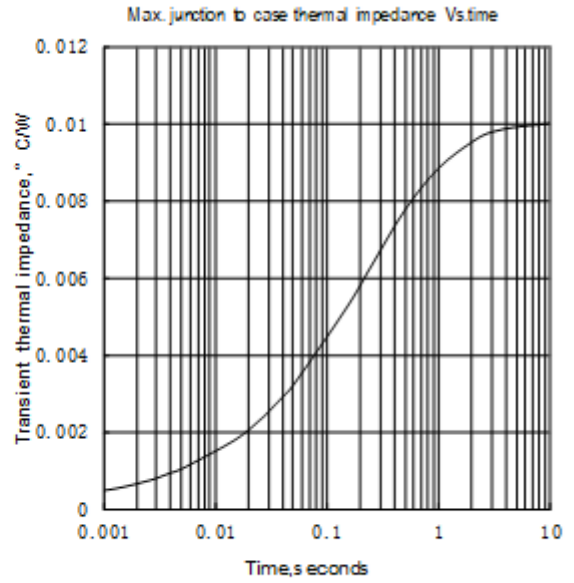


Fig.2

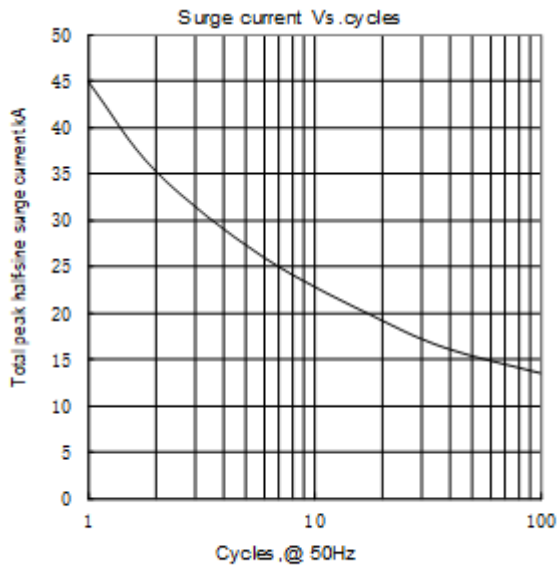
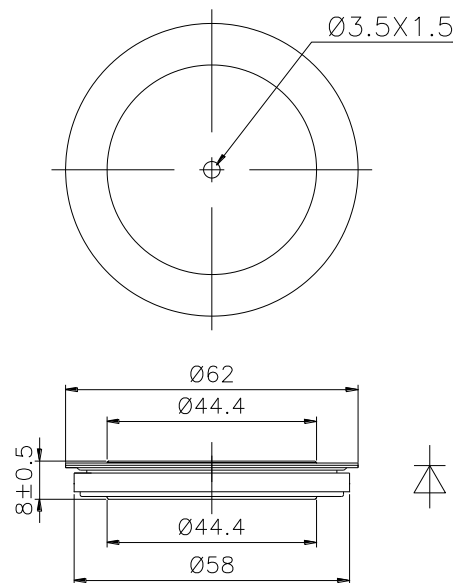


Fig.3



Nlps reserves the right to change specifications without notice.