

#### Features

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

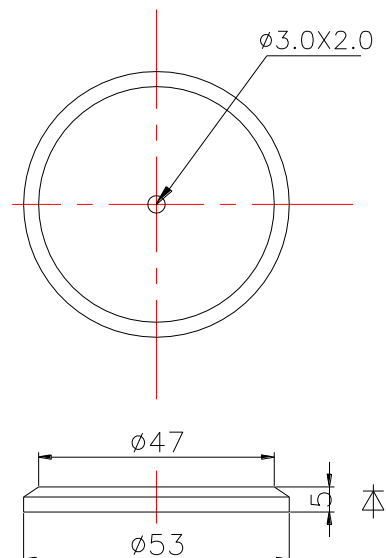
$I_{F(AV)}$	<b>9200 A</b>
$V_{RRM}$	<b>200~400 V</b>
$I_{FSM}$	<b>60 kA</b>
$I^2t$	<b>17049 10<sup>3</sup>A<sup>2</sup>S</b>



#### Typical Applications

- High current application For Welders up to 2000Hz
- Electrode plating

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T <sub>C</sub> =85°C	175			9200	A
$V_{RRM}$	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	175	200		400	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	175			50	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	175			60	kA
$I^2t$	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0V <sub>RRM</sub>				17049	10 <sup>3</sup> A <sup>2</sup> s
$V_{FO}$	Threshold voltage	I <sub>FM</sub> =7000-21000A	175			0.78	V
$r_F$	Forward slop resistance					0.031	mΩ
$V_{FM}$	Max Peak on-state voltage	I <sub>FM</sub> =6000A	25			1.00	V
$Q_{rr}$	Recovery charge	I <sub>FM</sub> =1000A, tp=2000μs, di/dt=-20A/μs, V <sub>R</sub> =20V	175			300	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC double side cooled				0.006	°C/W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.003	
$F_m$	Mounting force			20	30	40	kN
$T_{stg}$	Stored temperature			-40		175	°C
$W_t$	Weight				100		g
Outline	P62						



Nlps reserves the right to change specifications without notice.