

Features

- Low forward voltage drop
- High reverse voltage
- Hermetic metal cases with ceramic insulators

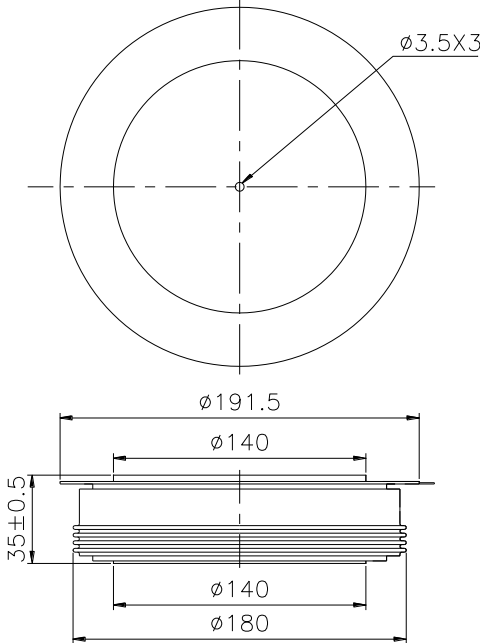
Typical Applications

- All purpose high power rectifier diodes
- High power resistance welding equipment
- Non-controllable and half-controllable rectifiers
- Controlled rectifiers

$I_{F(AV)}$ **6700A**
 V_{RRM} **5000~6500 V**
 I_{FSM} **120 kA**
 I^2t **7200 10⁴A²S**



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	125			6700	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	125	5000		6500	V
I_{RRM}	Repetitive peak current	at V_{RRM}	125			500	mA
I_{FSM}	Surge forward current	10ms half sine wave	125			120	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				7200	A ² s*10 ⁴
V_{FO}	Threshold voltage		125			0.72	V
r_F	Forward slope resistance					0.115	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=5000A, F=140kN$	125			1.50	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, tp=2000\mu s, di/dt= -20A/\mu s, V_R=50V$	125		30000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	DC: double side cooled Clamping force140kN				0.0028	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0006	
F_m	Mounting force			165		190	kN
T_{stg}	Stored temperature			-40		160	°C
W_t	Weight				4000		g
Outline	P58						



Nlps reserves the right to change specifications without notice.