Features

- Low forward voltage drop
- Soft recovery
- Hermetic metal cases with ceramic insulators

Typical Applications

- Inverters and choppers
- Motor control
- Snubber and free-wheeling diodes

$I_{F(AV)}$ 2200 A
V_{RRM} 4000 ～ 4500V
trr 8.0 μs

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=55°C	125			2200	A
I_{RRM}	Repetitive peak current	at V_{RRM}		125			240	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}		125			23	kA
I^2t	I^2t for fusing coordination						2645	A^2s*10^3
V_{FO}	Threshold voltage			125			1.65	V
r_F	Forward slope resistance						0.26	mΩ
V_{FM}	Peak forward voltage	@I_{FM}=3000A,	F=40kN	25			2.80	V
		@I_{FM}=5000A		125			2.98	
V_{FRM}	Maximum forward recovery voltage	di/dt=1000A/μs		125			80	V
				25			40	V
I_{rm}	Reverse recovery current	IFM=2000A,tp=4000μs, -di/dt=60A/μs, VR=50V		125		400		A
t_{rr}	Reverse recovery time					8.0		μs
Q_{rr}	Recovery charge					2000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force40kN					0.010	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink						0.003	
F_m	Mounting force				35		47	kN
T_{jop}	Operating temperature range				-40		125	°C
T_{stg}	Stored temperature				-40		150	°C
W_t	Weight					1460		g
Outline	P54							

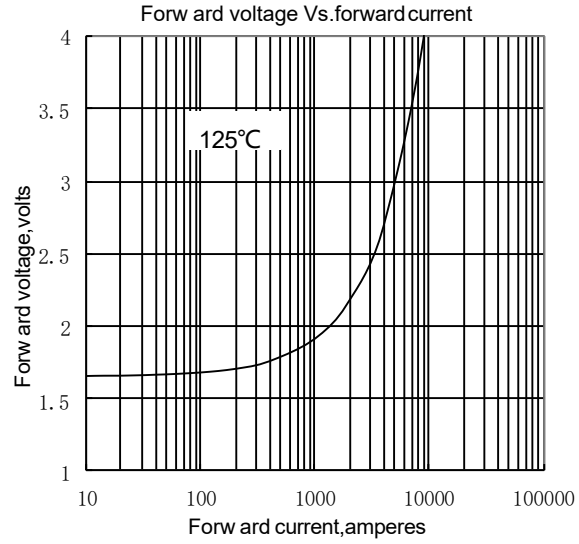


Fig.1

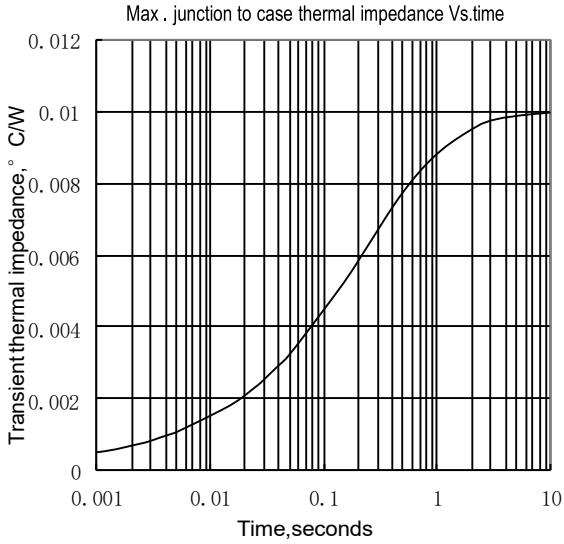


Fig.2

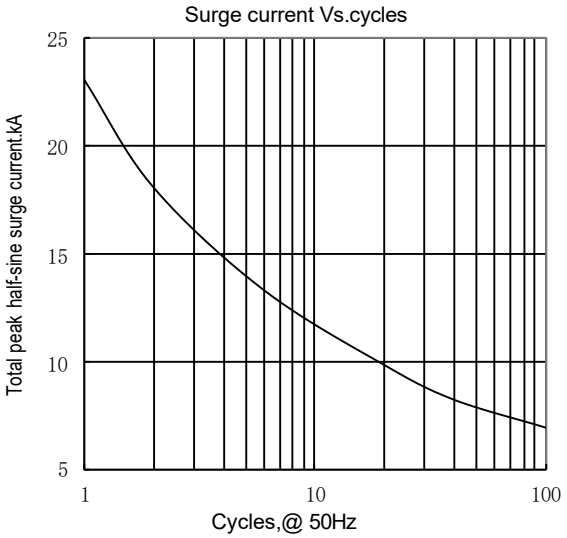
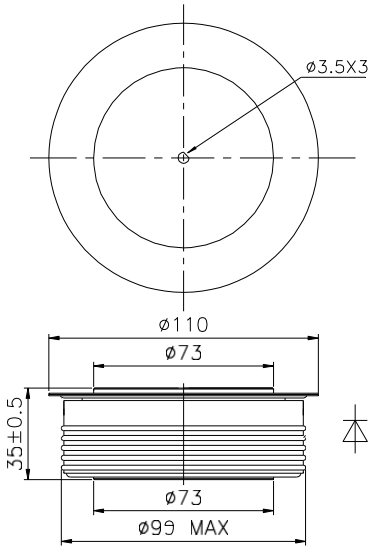


Fig.3

Outline:



NIps reserves the right to change specifications without notice.