

Features

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

I_{F(AV)} 5000A
V_{RRM} 200 ~ 400V

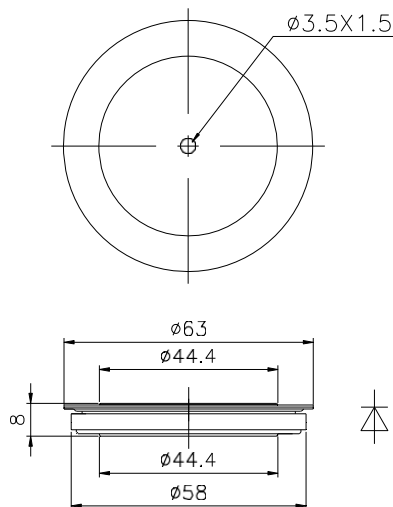
Typical Applications

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

I_{FSM} 45 kA
I²t 10000 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	175			5000	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms	175	200		400	V
I _{RRM}	Repetitive peak current	at V _{RRM}	175			50	mA
I _{FSM}	Surge forward current	10ms half sine wave	175			45	kA
I ² t	I ² T for fusing coordination	V _R =0V _{RRM}				10000	A ² s*10 ³
V _{FO}	Threshold voltage	I _{FM} =5000~15000A	175			0.80	V
r _F	Forward slop resistance						0.040
V _{FM}	Max Peak on-state voltage	I _{FM} =5000A, F=30kN	25			1.05	V
t _{rr}	Reverse recovery time	I _{FM} =2000A, tp=4000μs, di/dt=-60A/μs, V _R =100V	175			4	μs
Q _{rr}	Recovery charge		175			200	μC
R _{th(j-c)}	Thermal resistance Junction to case	D.C.: 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 _j	Junction temperature			-40		175	°C
T _{stg}	Stored temperature			-40		175	°C
W _t	Weight				150		g
Outline	P61a						

Outline:



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