

Features

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

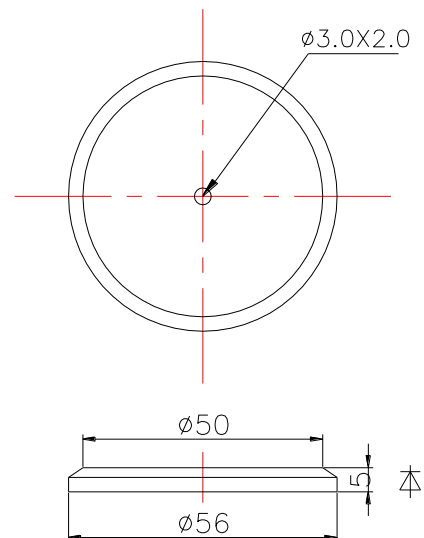
Typical Applications

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

$I_{F(AV)}$ **10500 A**
 V_{RRM} **200~400 V**
 I_{FSM} **70 kA**
 I^2t **24500 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			10500	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	at V _{RRM}	175			50	mA
I _{FSM}	Surge forward current	10ms half sine wave	175			70	kA
I ² t	I ² T for fusing coordination	V _R =0V _{RRM}				24500	10 ³ A ² s
V _{FO}	Threshold voltage	I _{FM} =7000-21000A	175			0.81	V
r _F	Forward slop resistance					0.026	mΩ
V _{FM}	Max Peak on-state voltage	I _{FM} =6000A	25			1.00	V
Q _{rr}	Recovery charge	I _{FM} =1000A, tp=2000μs, di/dt=-20A/μs, V _R =50V	175			300	μC
R _{th(j-c)}	Thermal resistance Junction to case	DC- double side cooled				0.005	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink					0.0025	
F _m	Mounting force			30	40	50	kN
T _{stg}	Stored temperature			-40		175	°C
W _t	Weight				110		g
Outline	P63						



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