

产品规格书

Specification of products

产品名称: 整流管模块

产品型号: MDC160A-M2

浙江世菱半导体有限公司
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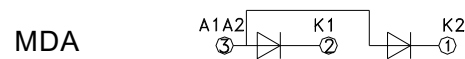
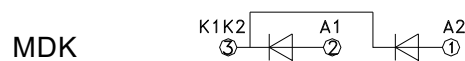
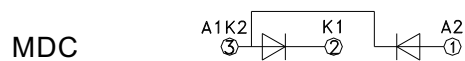
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拟制	审核	核准
林益龙	曹剑龙	宗瑞

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _{T(AV)} I _{F(AV)}	Mean on-state current	180° half sine wave 50Hz Single side cooled, T _C =85°C	125		160		A
I _{T(RMS)}	RMS on-state current	Single side cooled, T _C =85°C	125		251		A
V _{DRM} V _{RRM}	Repetitive peak on-state voltage Repetitive peak reverse voltage	V _{DRM} &V _{RRM} tp=10ms V _{DSM} &V _{RSM} = V _{DRM} &V _{RRM} +200V respectively	125	600		1800	V
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} at V _{RRM}	125			9	mA
I _{TSM}	Surge on-state current	10ms half sine wave	125			6.00	KA
I ² t	I ² T for fusing coordination	V _R =60%V _{RRM}				180	A ² s*10 ³
V _{TO}	Threshold voltage		125			0.8	V
r _T	On-state slop resistance					1.25	mΩ
V _{FM}	Peak on-state voltage	I _{TM} =500A	125		1.3		V
V _{GD}	Non-trigger gate voltage	At 67%V _{DRM}	125			0.2	V
R _{th(j-c)}	Thermal resistance Junction to heatsink	At 180° sine Single side cooled				0.170	°C /W
V _{iso}	Isolation voltage	50Hz, RM. S, t=1min, I _{iso} : 1mA (MAX)		3000			V
F _m	Thermal connection torque(M6)				5.0		N.m
	Mounting torque(M6)				5.0		N.m
T _{stg}	Stored temperature			-40		140	°C
W _t	Weight				190		g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM



Rating and Characteristic

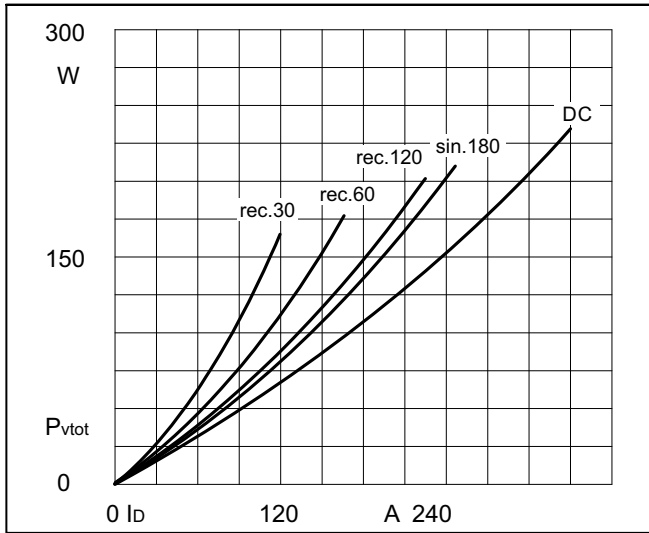


Fig1. Power dissipation

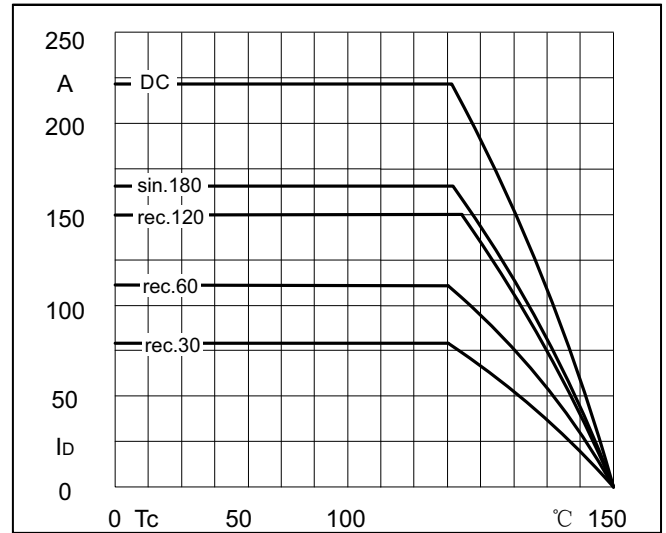


Fig2. Forward Current Derating Curve

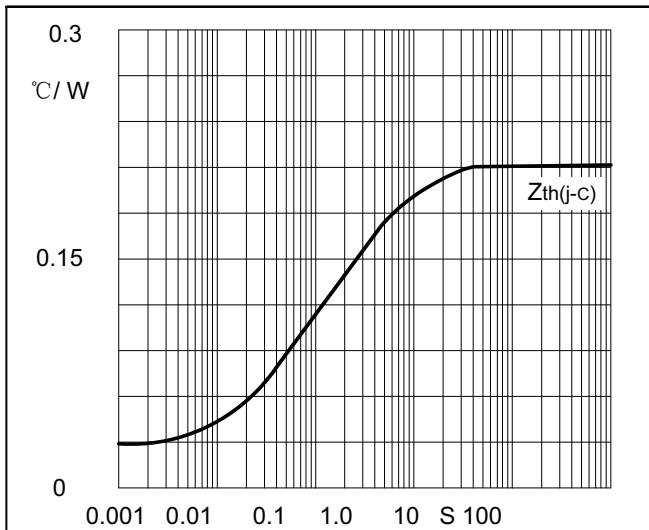


Fig3. Transient thermal impedance

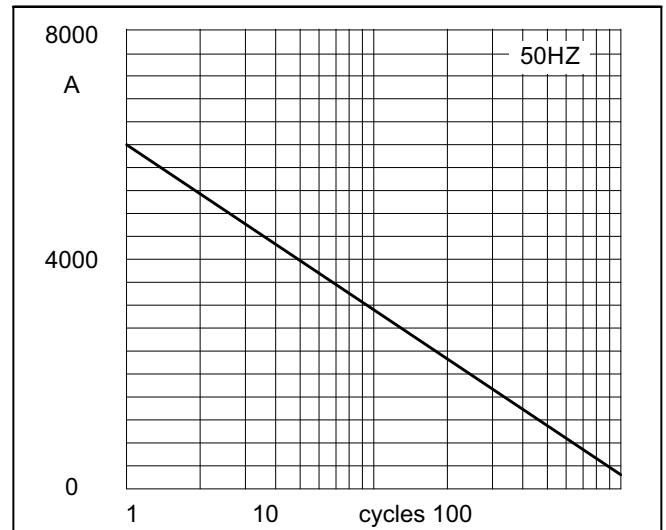


Fig4. Max Non-Repetitive Forward Surge Current

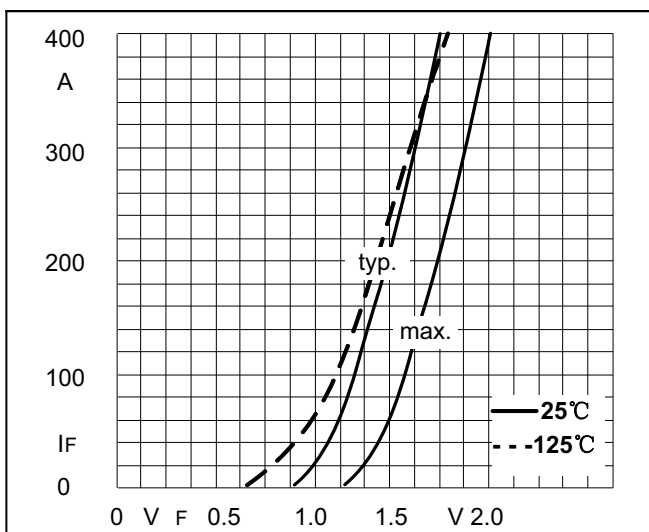


Fig5. Forward Characteristics

Outside Dimension

