

产品规格书

Specifcation of products

产品名称: 整流管模块

产品型号: MDC55A-T01

浙江世菱半导体有限公司
ZHEJIANG SHILING SEMICONDUCTOR CO., LTD.

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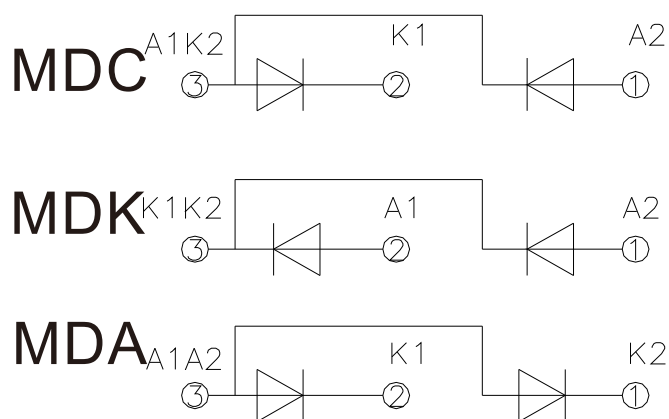
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拟制	审核	核准
林益龙	曹剑龙	宗瑞

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
I _{F(AV)}	Mean forward current	180° half sine wave 50Hz Single side cooled, T _C = 100°C	150			55	A
I _{F(RMS)}	RMS forward current	Single side cooled, T _C = 100°C	150			86	A
V _{RRM}	Repetitive peak reverse voltage	V _{RRM} tp=10ms V _{RSM} = V _{DRM} & V _{RRM} + 200V	150	600		2200	V
I _{RRM}	Repetitive peak current	at V _{RRM}	150			8	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			1.30	KA
I ² t	I ² T for fusing coordination	V _R = 0.6V _{RRM}					8.6
V _{FO}	Threshold voltage		150			0.80	V
r _F	Forward slope resistance						3.47
V _{FM}	Peak forward voltage	I _{FM} = 165A	25			1.1	V
R _{th(j-c)}	Thermal resistance Junction to heatsink	At 180° sine Single side cooled				0.700	°C/W
V _{iso}	Isolation voltage	50Hz, R.M. S, t=1min, I _{iso} : 1mA (max)		2500			V
F _m	Terminal connection torque(M5)					4.0	N.m
	Mounting torque(M6)					5.0	N.m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight					110	g
Outline							

OUTLINE DRAWING & CIRCUIT DIAGRAM



Rating and Characteristic

Peak forward Voltage Vs. Peak forward Current

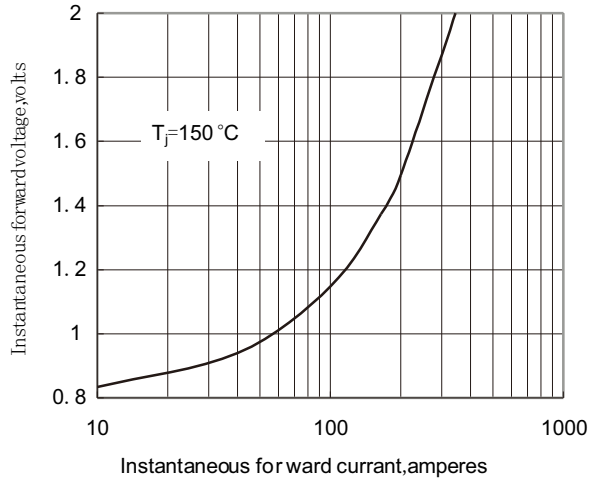


Fig. 1

Max junction To case Thermal Impedance Vs. Time

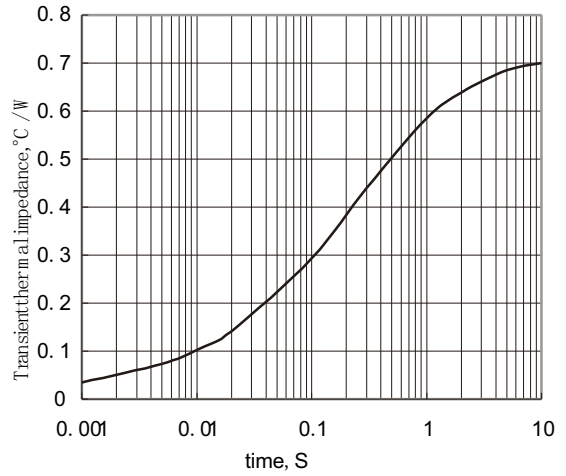


Fig. 2

Max. Power Dissipation Vs. Mean forward Current

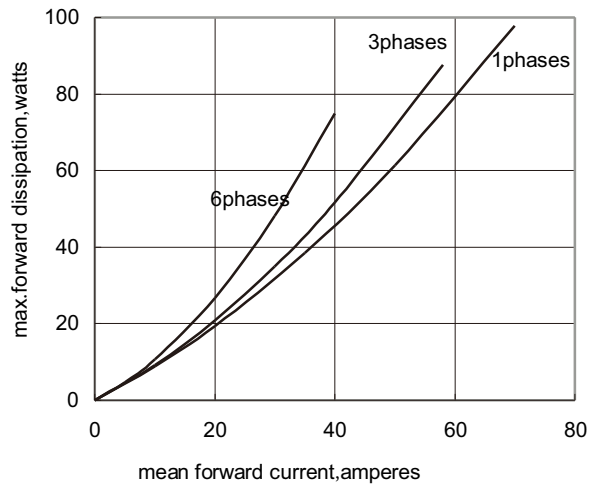


Fig. 3

Max. case Temperature Vs. Mean forward Current

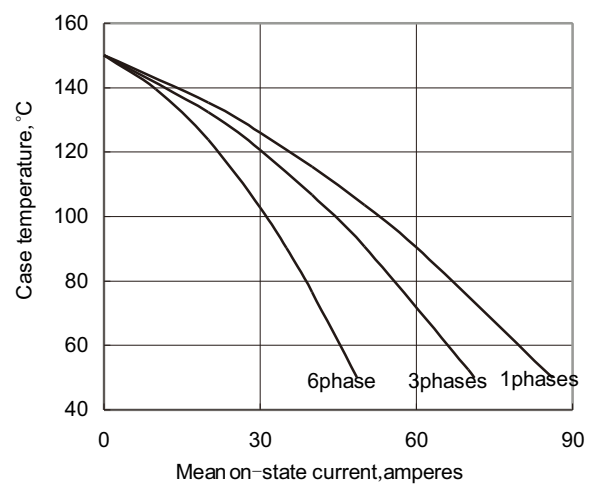


Fig. 4

Max. Power Dissipation Vs. Mean forward Current MDC55

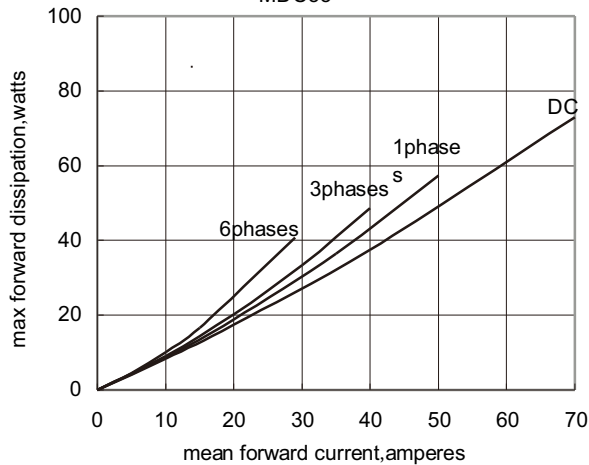


Fig. 5

Max. case Temperature Vs. Mean forward Current

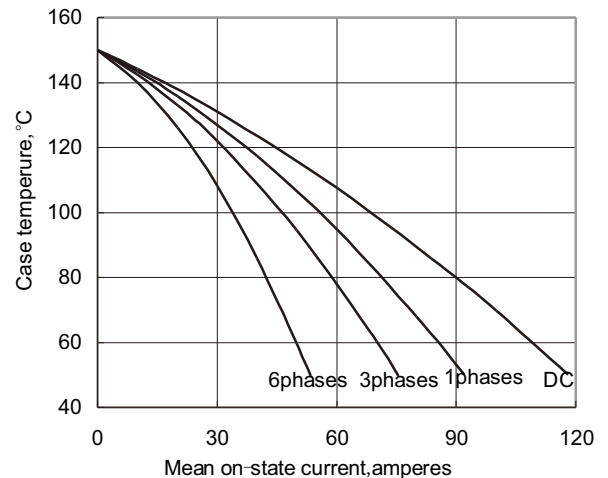


Fig. 6

Outside Dimension

