Shil ing®

ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

Specifcation of products

:

: MT500A-Y12

ZHEJIANG SHILING SEMICONDUCTOR CO.,LTD.

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05 2023.8

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Single side cooled, T_C=85°C	125			500	A
$I_{T(RMS)}$	RMS on-state current	Single side cooled, T_C=85°C	125			785	A
V_{DRM} V_{RRM}	Repetitive peakoff-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} RRM at V_{RRM}	125			40	mA
I_{TSM}	Surge on-state current	10ms half sinewave V_R=60%V_{RRM}	125			12.0	KA
I^2t	I^2T for fusing coordination					734	A^2s*10^3
V_{TO}	Threshold voltage		125			0.80	V
r_T	On-state slop resistance					0.49	mΩ
V_{TM}	Peak on-state voltage		125			[illegible]	[illegible]
dv/dt	Critical rate of r						

NE DR & C DIAGRAM

Rating and Characteristic

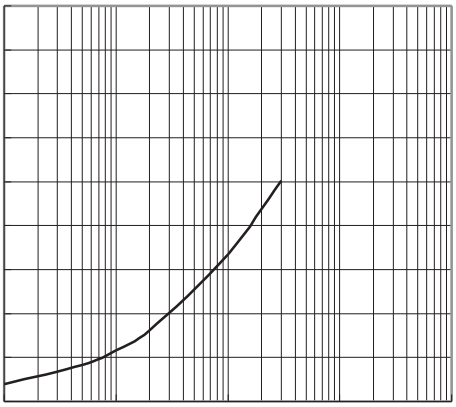

Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

Fig.6

Rating and Characteristic

Fig.7

Fig.8

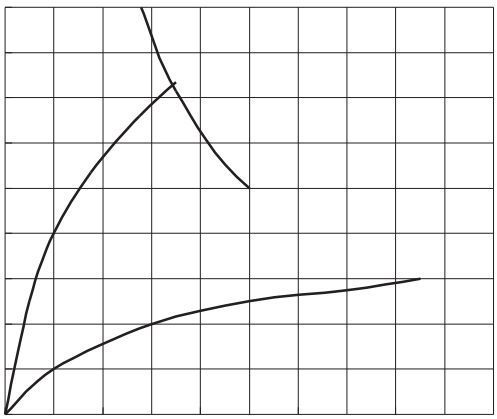

Fig.9

Fig.10

Outside Dimension



