TECHSEM

MDC400 MDA400 MDK400 MD400
Diode Modules

Features:

- Isolated mounting base 3600V~
- Pressure contact technology with Incrtased power cycling capability
- Space and weight savings

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	400A
V_{RRM}	2600~3600V
I_{FSM}	13 A×10^3
I^2t	845A^2 S*10^3

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 water cooled,T_C=60°C	150			400	A
$I_{F\ (RMS)}$	RMS forward current		150			628	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RsM}= V_{RRM}+100V	150	2600		3600	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			35	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			13.0	KA
I^2t	I^2T for fusing coordination					845	A^2s*10^3
V_{FO}	Threshold voltage		150			0.95	V
r_F	Forward slop resistance					1.05	mΩ
V_{FM}	Peak forward voltage	I_{FM}=1200A	25			2.41	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine, Single side cooled				0.110	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180^0 sine, Single side cooled				0.04	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min, I_{iso}:1mA(max)		3600			V
F_m	Terminal connection torque(M8)				12		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				1820		g
Outline	406F3						

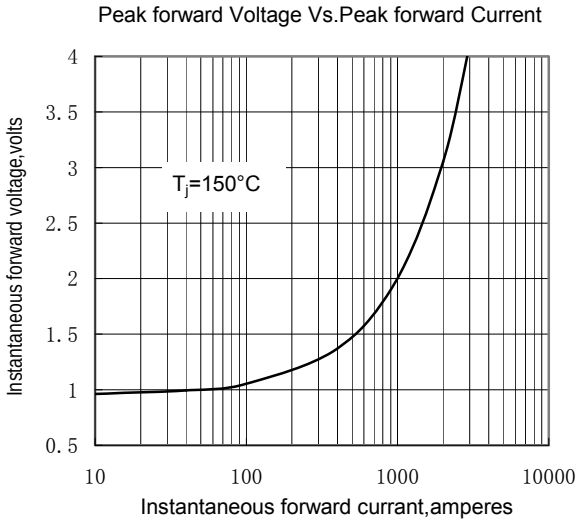


Fig.1

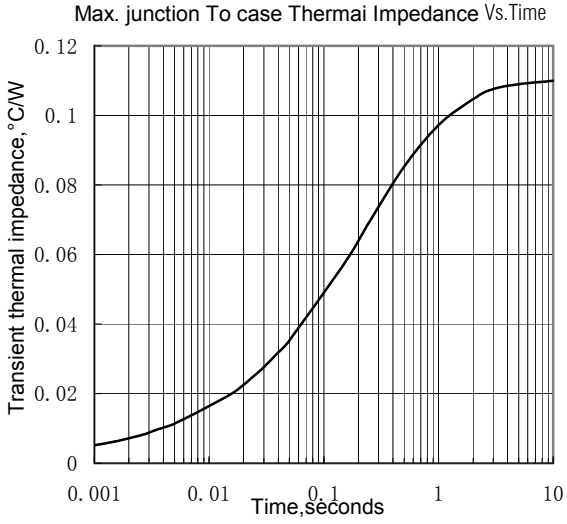


Fig.2

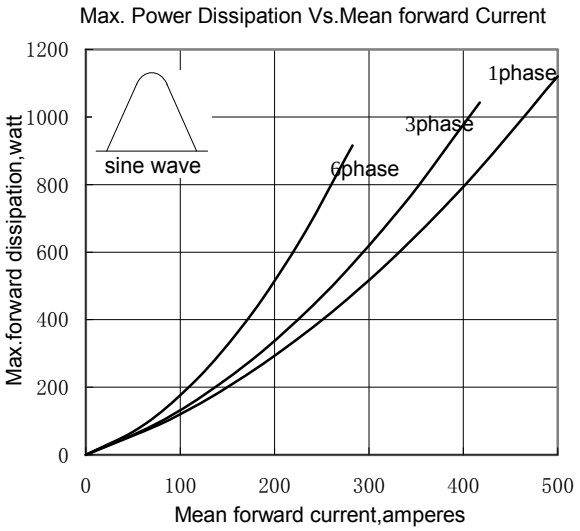


Fig.3

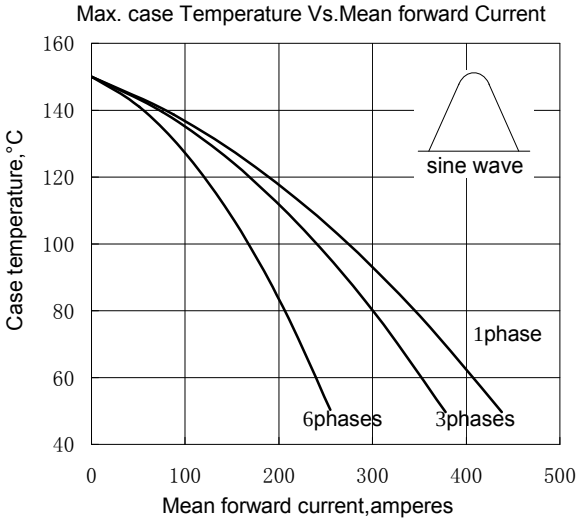


Fig.4

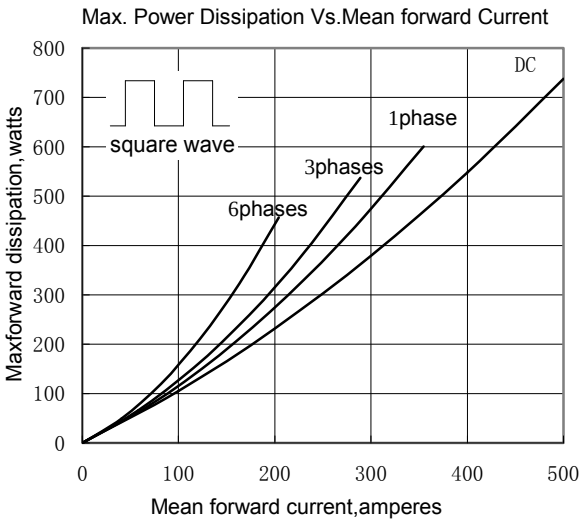


Fig.5

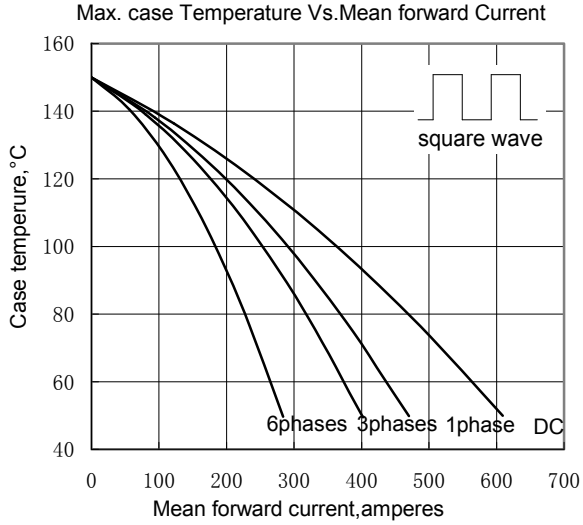


Fig.6

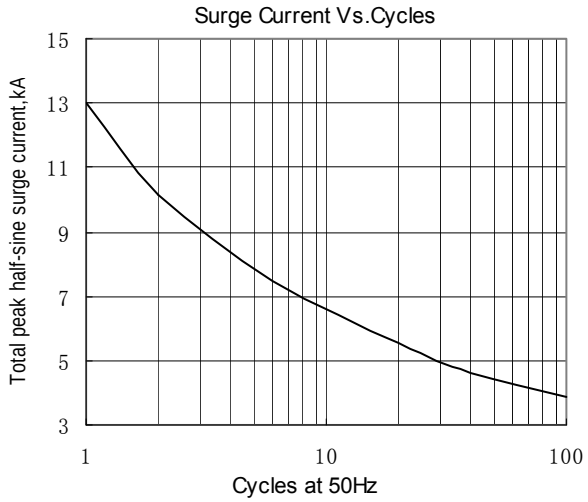


Fig.7

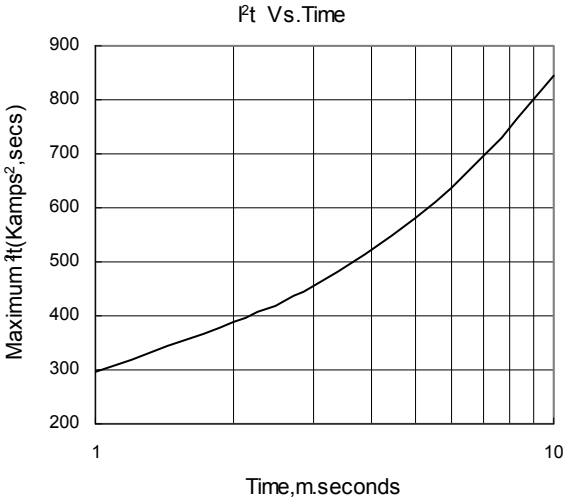
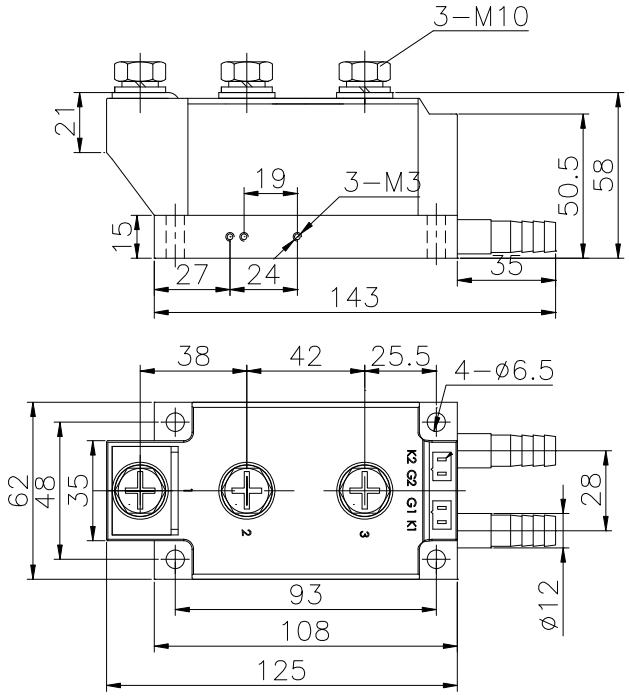


Fig.8

Outline:



406F3