

MDC400 MDA400 MDK400 MD400 Diode Modules

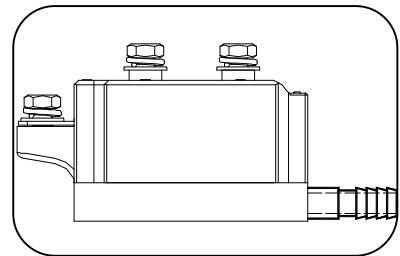
Features:

- Isolated mounting base 2500V~
- Pressure contact technology with Increased 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}	600~1800V
I_{FSM}	$10 \text{ A} \times 10^3$
I^2t	$510 \text{ A}^2 \text{ s} \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(\text{°C})$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side water cooled, $T_C=60\text{°C}$	150			400	A
$I_F(\text{RMS})$	RMS forward current		150			628	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} \text{ tp}=10\text{ms}$ $V_{RSM}=V_{RRM}+200\text{V}$	150	600		1800	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			30	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			10.0	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$				510	$\text{A}^2\text{s} \cdot 10^3$
V_{FO}	Threshold voltage		150			0.75	V
r_F	Forward slop resistance					0.64	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=1200\text{A}$	25			1.65	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.160	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1\text{mA(max)}$	2500				V
F_m	Terminal connection torque (M8)				12		$\text{N}\cdot\text{m}$
	Mounting torque (M6)				6		$\text{N}\cdot\text{m}$
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				1300		g
Outline				405F3			

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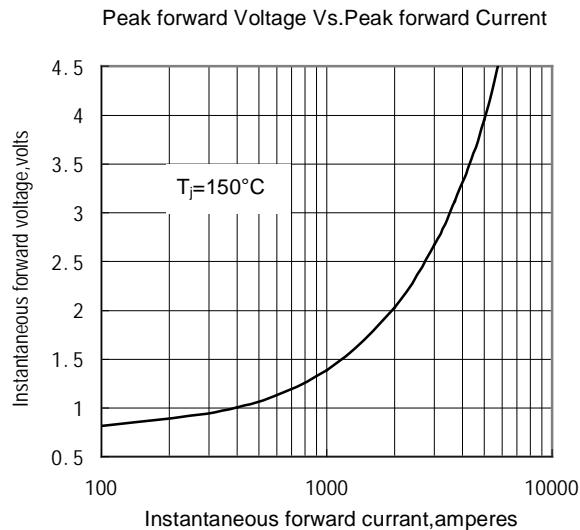


Fig.1

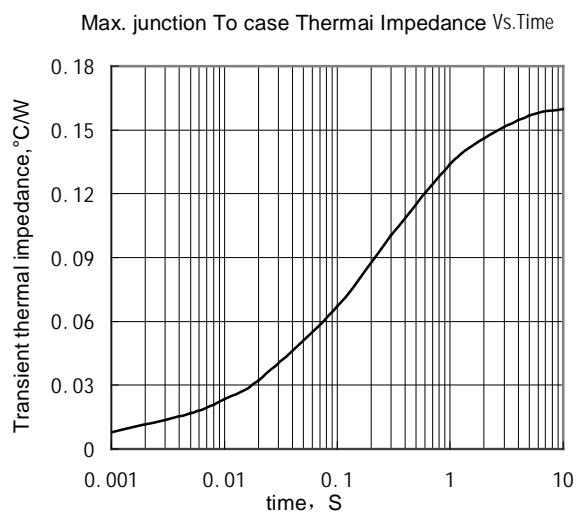


Fig.2

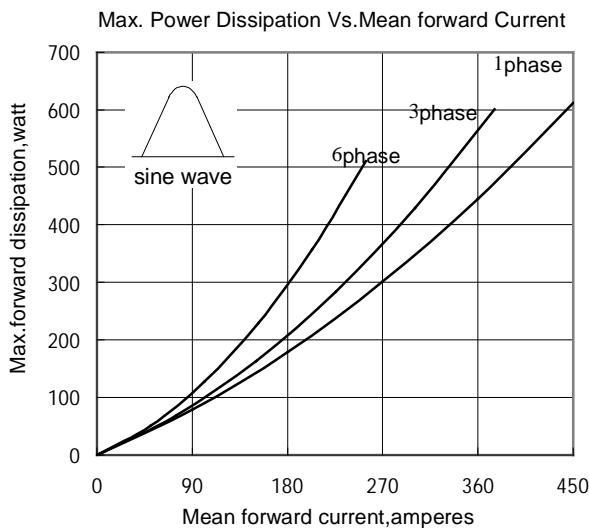


Fig.3

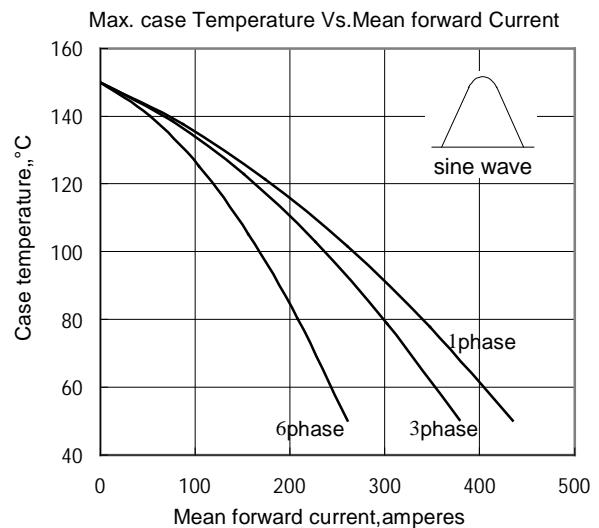


Fig.4

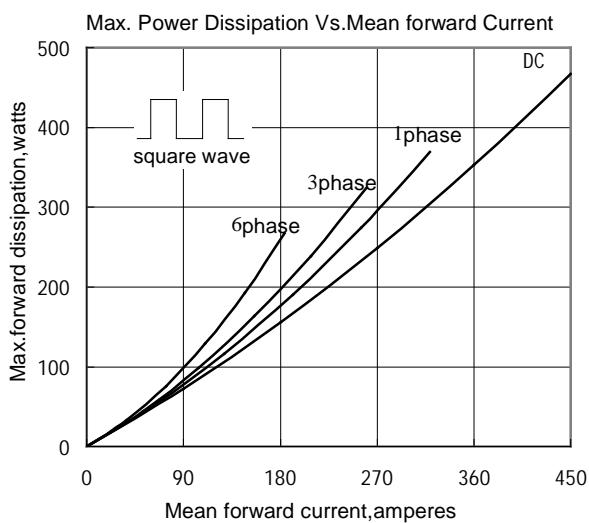


Fig.5

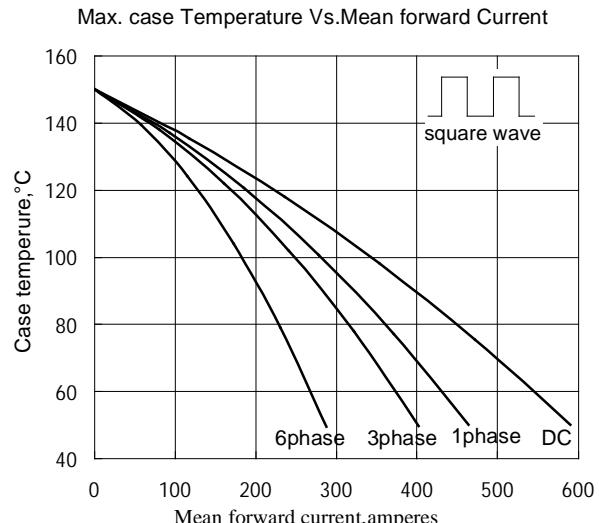


Fig.6

MDC400 MDA400 MDK400 MD400

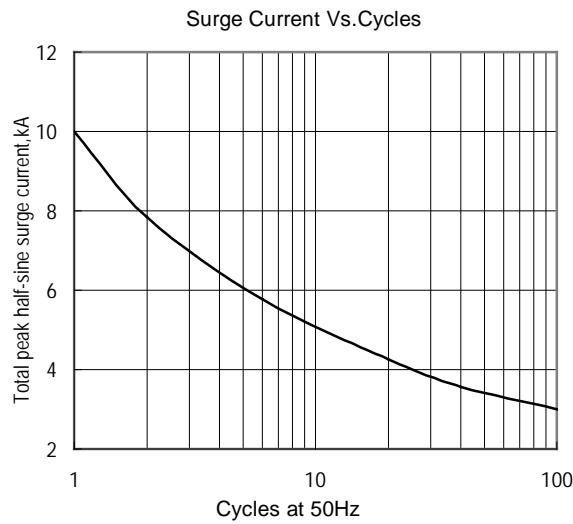


Fig.7

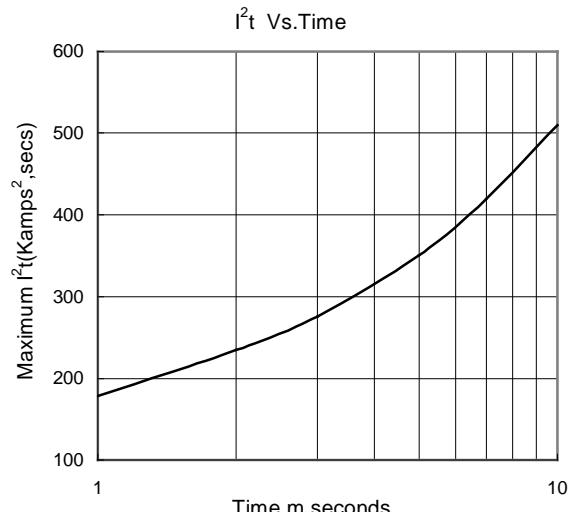


Fig.8

Outline:

