MDC90 MDA90 MDK90 MD90

Features:

- Isolated mounting base 2500V~
- 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

$I_{F(AV)}$	90A
V_{RRM}	600~1800V
I_{FSM}	$2.3A\times10^3$
I^2t	$26\ A^2\ S*10^3$

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 cooled,T_C=100°C	150			90	A
$I_{F\ (RMS)}$	RMS forward current		150			141	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms V_{RSM}= V_{RRM}+100V	150	600		1800	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			2.30	KA
I^2t	I^2T for fusing coordination					26	A^2s*10^3
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance					1.70	mΩ
V_{FM}	Peak forward voltage	I_{FM}=270A	25			1.33	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine, Single side cooled				0.470	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180^0 sine, Single side cooled				0.2	°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		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				175		g
Outline	W20						

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MDC90 MDA90 MDK90 MD90

Peak forward Voltage Vs.Peak forward Current

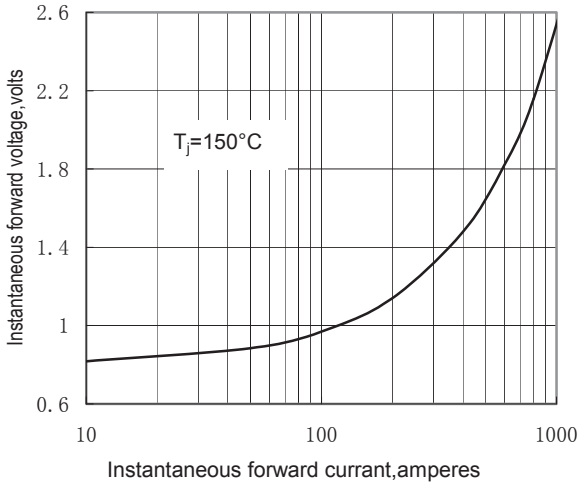


Fig.1

Max. junction To case Thermai Impedance Vs.Time

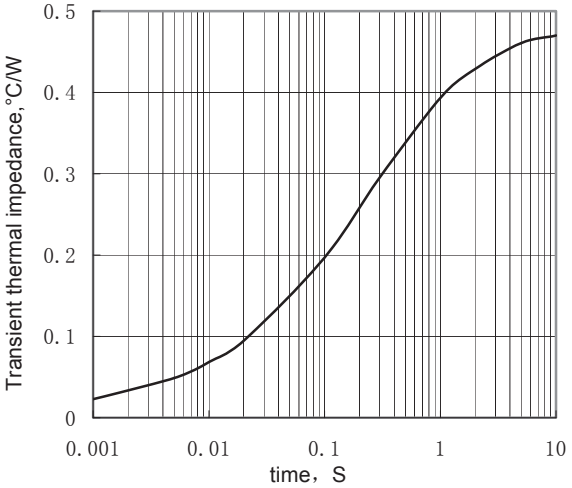


Fig.2

Max. Power Dissipation Vs.Mean forward Current

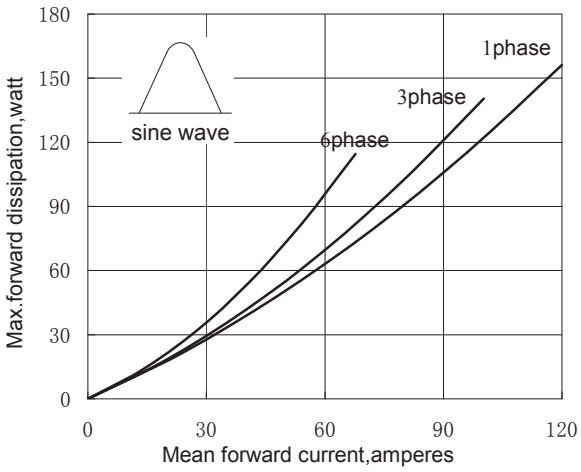


Fig.3

Max. case Temperature Vs.Mean forward Current

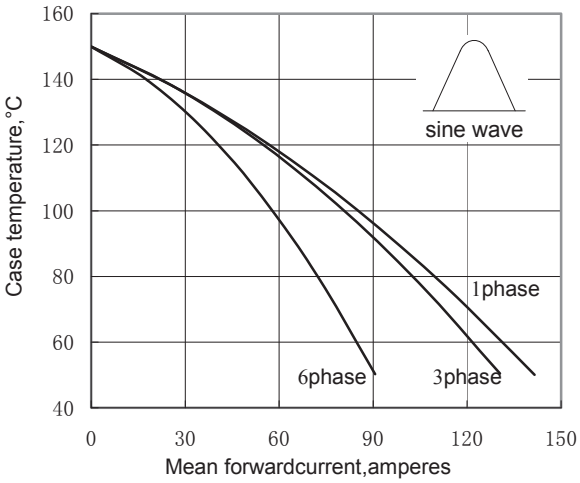


Fig.4

Max. Power Dissipation Vs.Mean forward Current

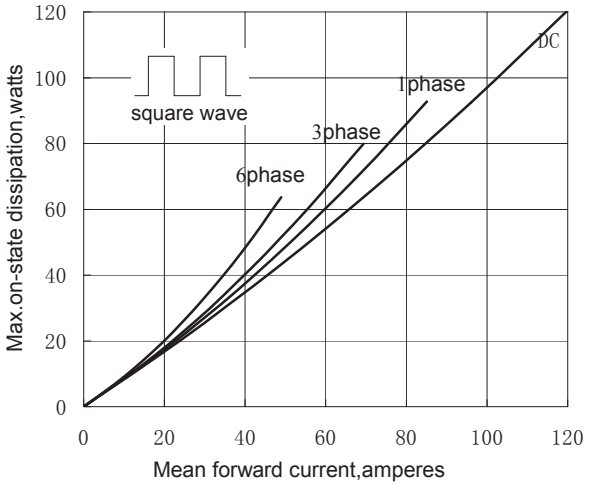


Fig.5

Max. case Temperature Vs.Mean forward Current

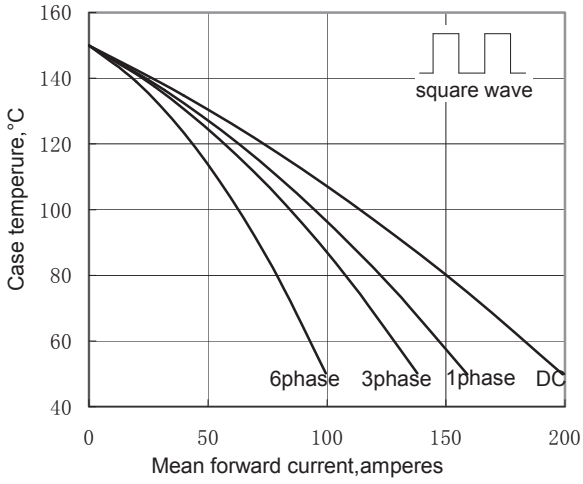


Fig.6

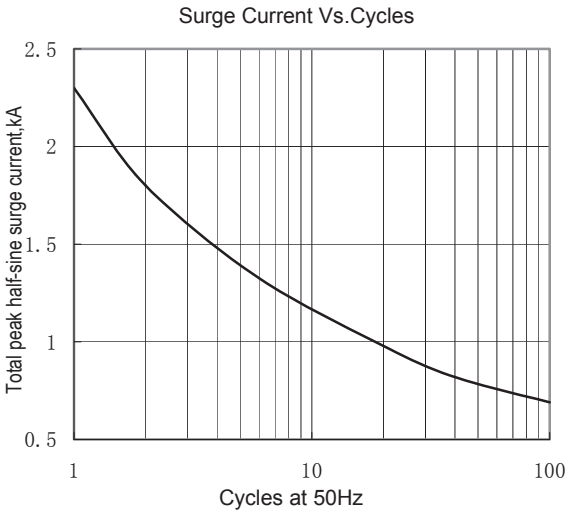


Fig.7

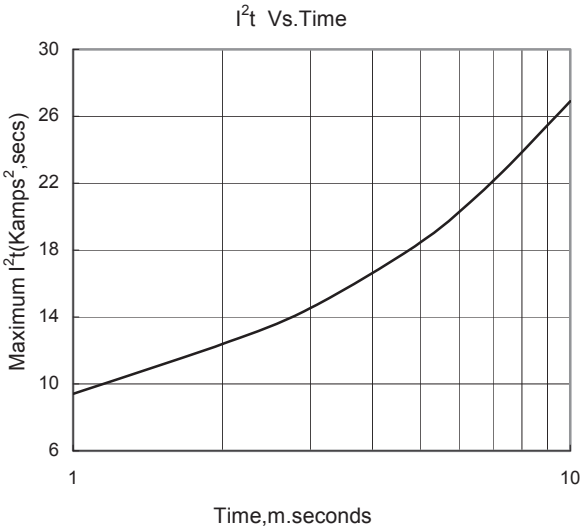
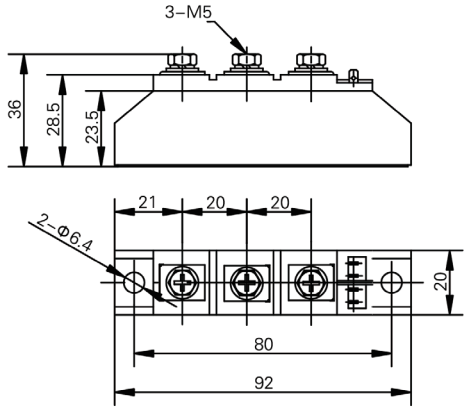
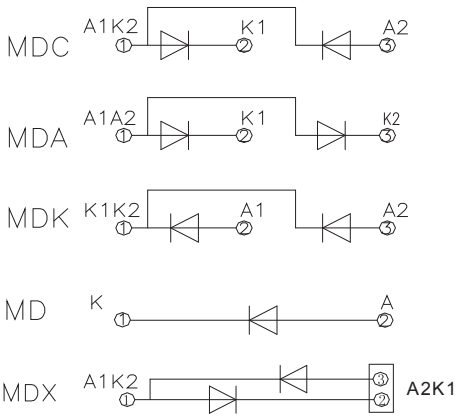


Fig.8

Outline:



W20



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