

MDC800 MDA800 MDK800 MD800 Diode Modules

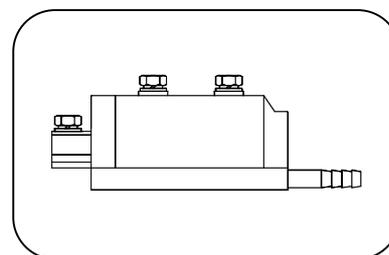
Features:

- n Isolated mounting base 2500V~
- n Pressure contact technology with
Increased power cycling capability
- n Space and weight savings

Typical Applications

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

$I_{F(AV)}$	800A
V_{RRM}	600~1800V
I_{FSM}	$18A \times 10^3$
I^2t	$1650A^2 S \times 10^3$



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			800	A
$I_{F(RMS)}$	RMS forward current		150			1256	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM} = V_{RRM} + 200V$	150	600		1800	V
I_{RRM}	Repetitive peak current	at V_{RRM}	150			40	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			18.0	KA
I^2t	I^2T for fusing coordination	$V_R = 0.6V_{RRM}$				1650	$A^2s \times 10^3$
V_{FO}	Threshold voltage		150			0.75	V
r_F	Forward slop resistance					0.34	mΩ
V_{FM}	Peak forward voltage	$I_{FM} = 2400A$	25			1.72	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine; Single side cooled				0.080	°C /W
V_{iso}	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}: 1mA(max)$		2500			V
F_m	Terminal connection torque (M10)				12		N·m
	Mounting torque (M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				2600		g
Outline	409F3						

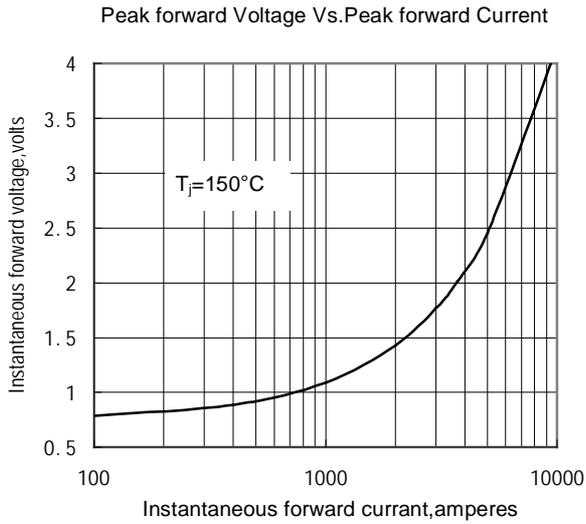


Fig.1

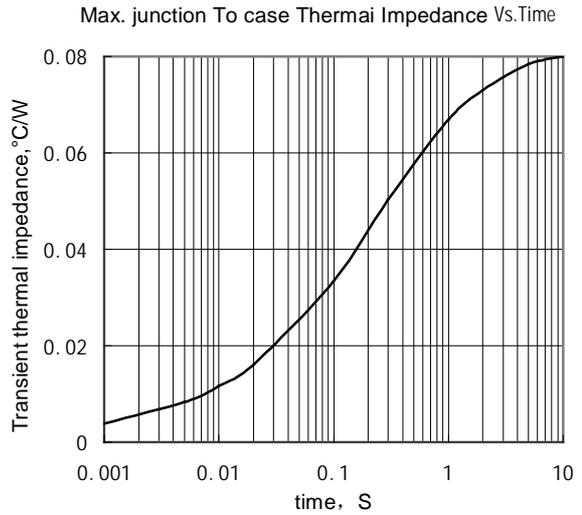


Fig.2

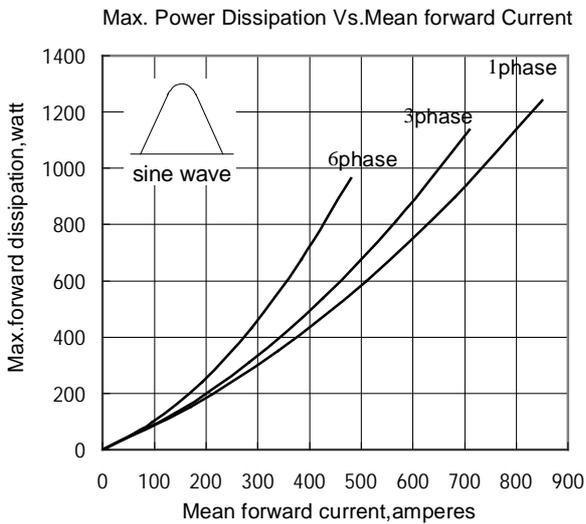


Fig.3

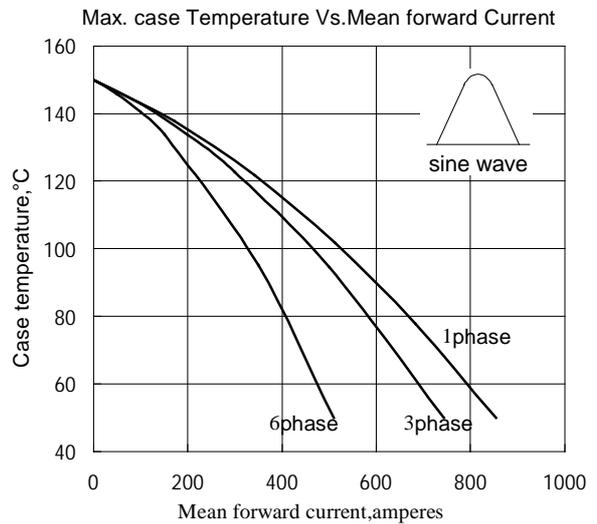


Fig.4

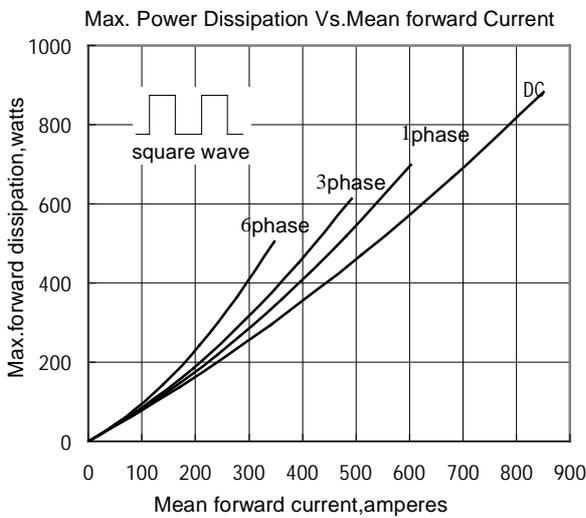


Fig.5

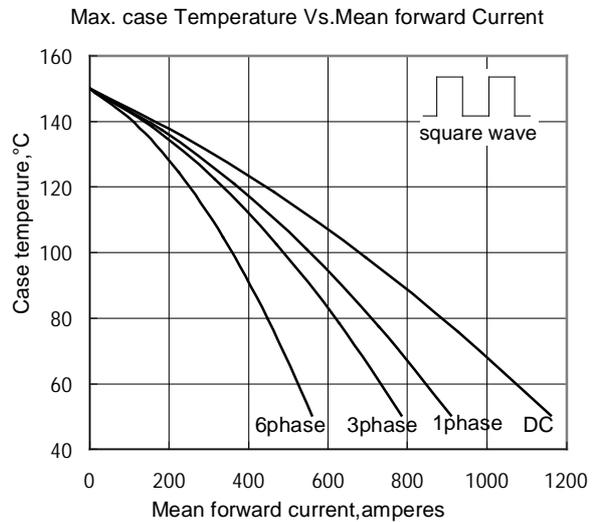


Fig.6

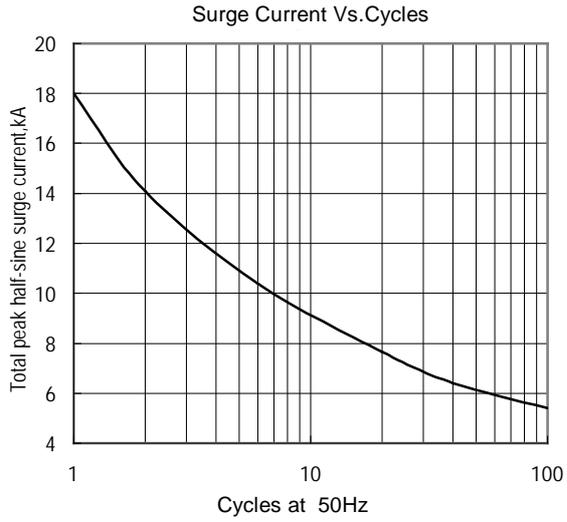


Fig.7

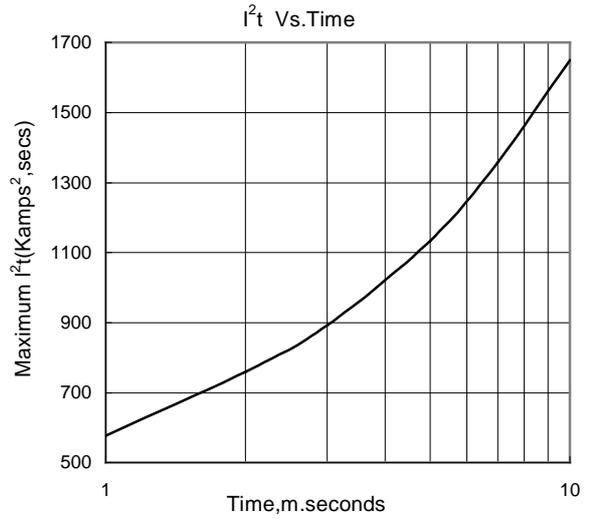


Fig.8

Outline:

