

MDC182 MDA182 MDK182 MD182 Diode Modules

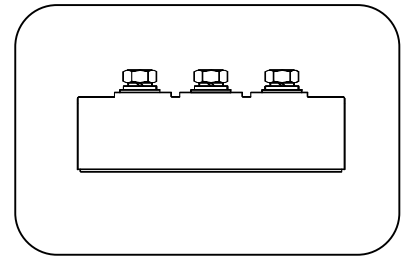
Features:

- 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

$I_{T(AV)}$	182A
V_{RRM}	600~1800V
I_{TSM}	$6.4 \text{ A} \times 10^3$
I^2t	$209A^2 \text{ S} \times 10^3$



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 cooled, T _C =100°C	150			182	
I _{F(RMS)}	RMS forward current		150			286	
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			12	mA
I _{FSM}	Surge forward current	10ms half sine wave	150			6.40	KA
I ² t	I ² T for fusing coordination	V _R =0.6V _{RRM}				209	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.80	V
r _F	Forward slop resistance					0.96	mΩ
V _{FM}	Peak forward voltage	I _{FM} =550A	25			1.43	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.220	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink	At 180° sine: Single side cooled				0.08	°C /W
V _{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(max)		2500			V
F _m	Terminal connection torque (M6)				6		N·m
	Mounting torque (M6)				6		N·m
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				320		g
Outline	214F3/216F3						

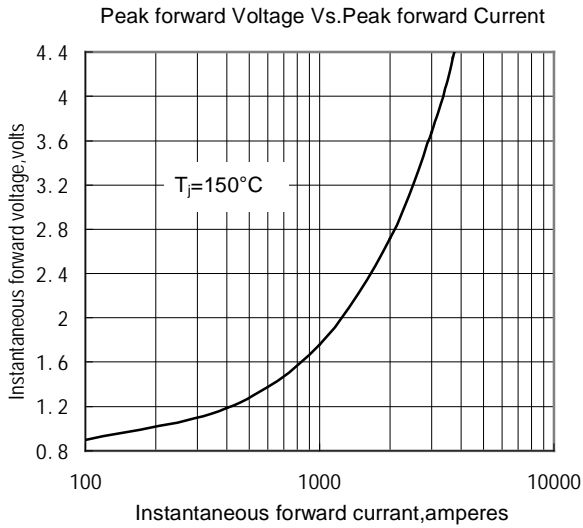


Fig.1

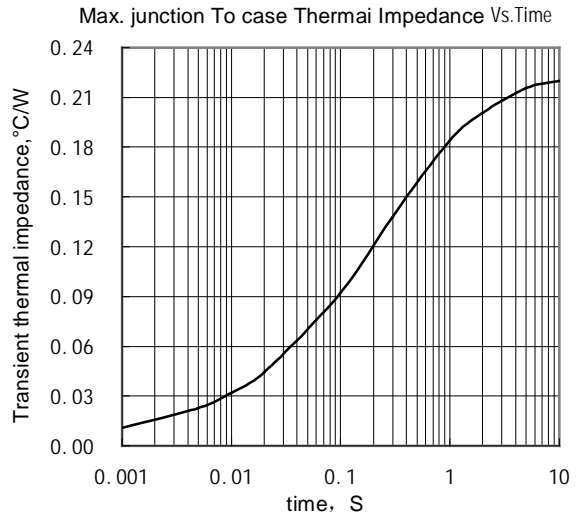


Fig.2

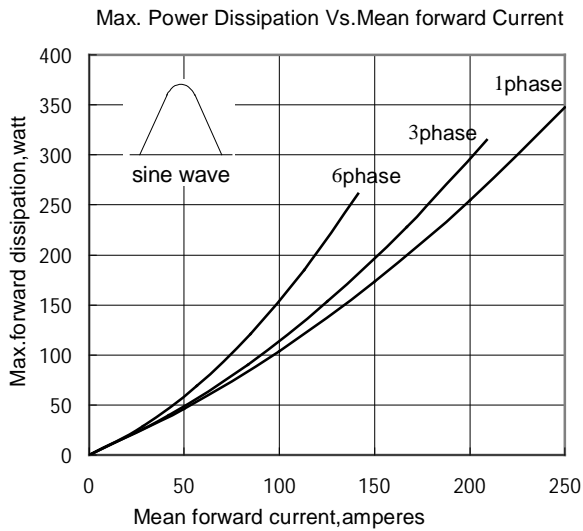


Fig.3

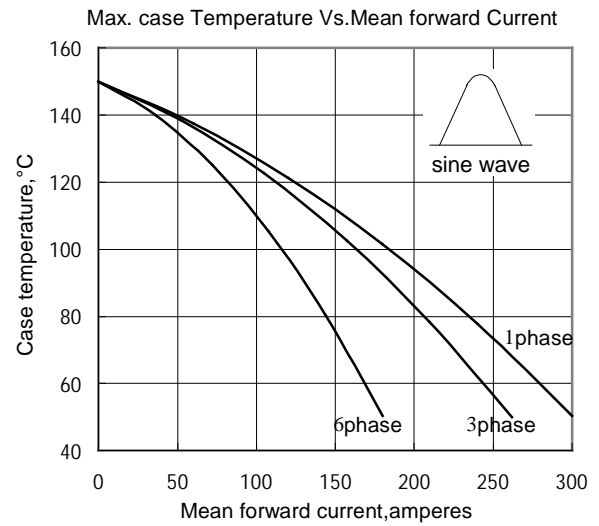


Fig.4

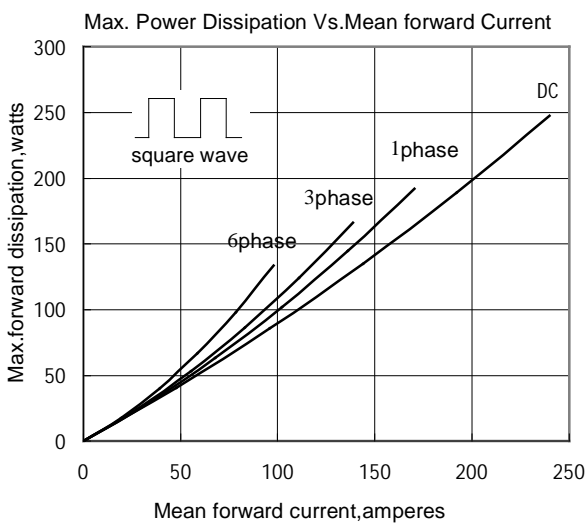


Fig.5

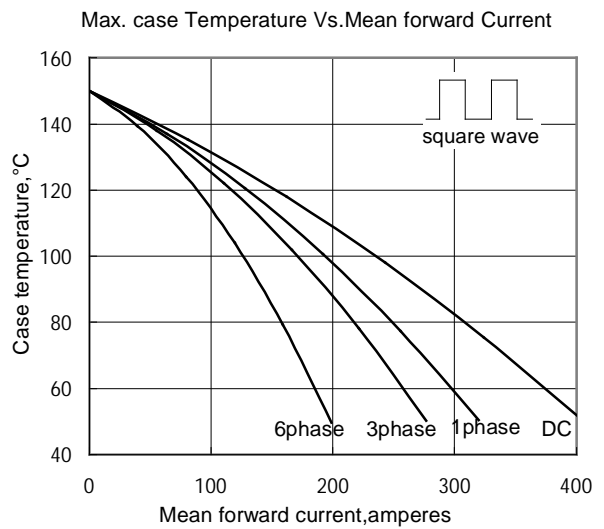


Fig.6

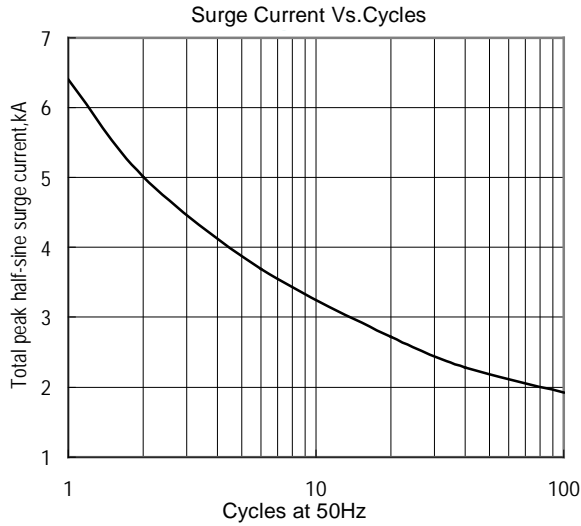


Fig.7

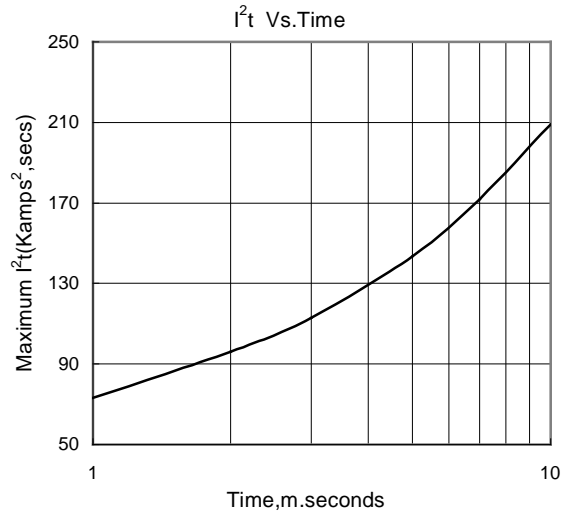


Fig.8

Outline:

