

MDC55 MDA55 MDK55 MD55 Diode Modules

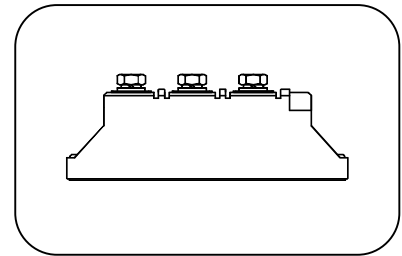
Features:

- 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

$I_{F(AV)}$	55A
V_{RRM}	600~1800V
I_{FSM}	$1.3A \times 10^3$
I^2t	$8.6A^2 \cdot S \cdot 10^3$



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _f (°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			55	A
$I_{F(RMS)}$	RMS forward current		150			86	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			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.30	KA
I^2t	I ² T for fusing coordination	V _R =0.6V _{RRM}				8.6	A ² s·10 ³
V_{FO}	Threshold voltage		150			0.80	V
r _F	Forward slop resistance					3.47	mΩ
V_{FM}	Peak forward voltage	I _{FM} =170A	25			1.45	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.700	°C /W
R _{th(c-h)}	Thermal resistance case to heat sink	At 180° 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				115		g
Outline	215F3						

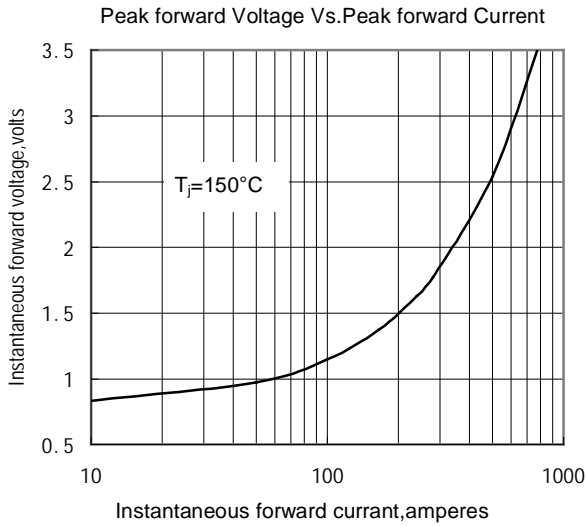


Fig.1

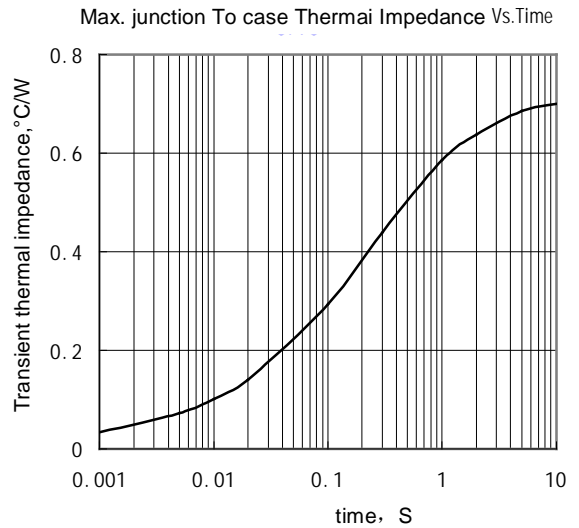


Fig.2

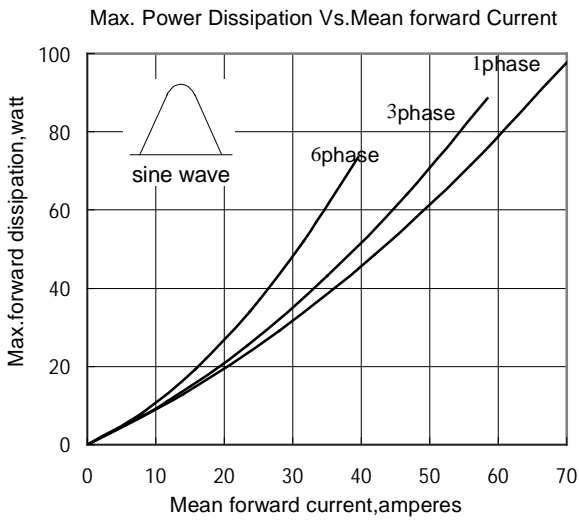


Fig.3

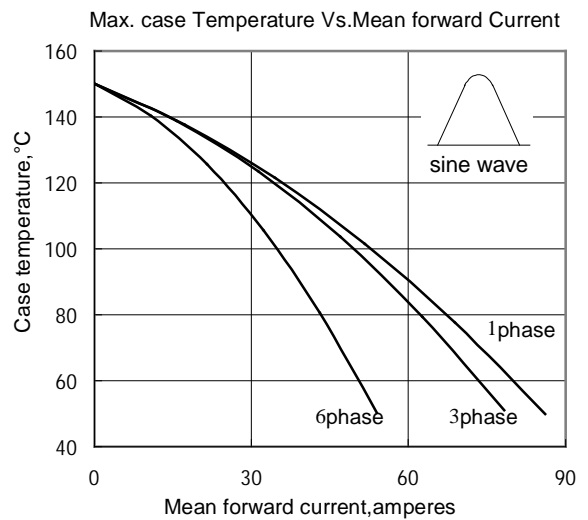


Fig.4

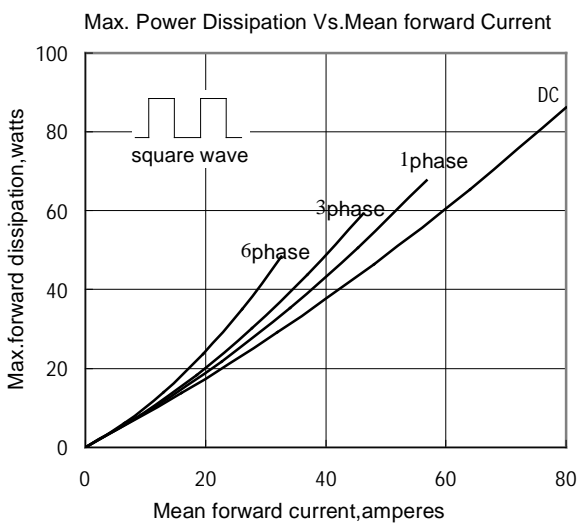


Fig.5

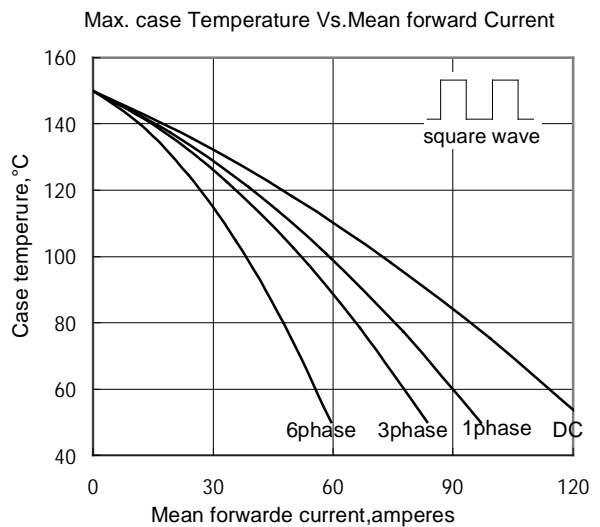


Fig.6

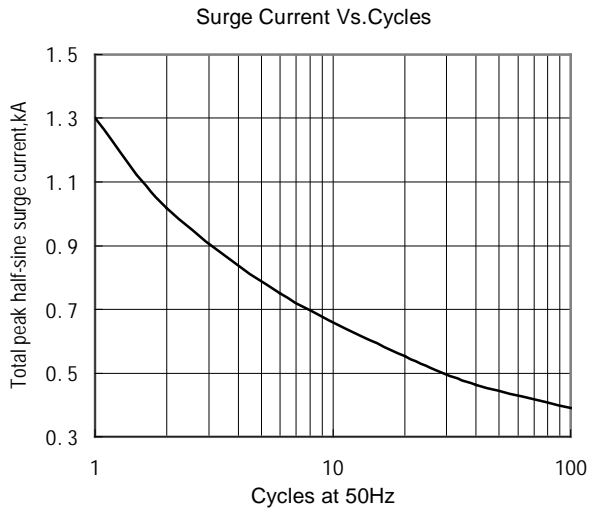


Fig.7

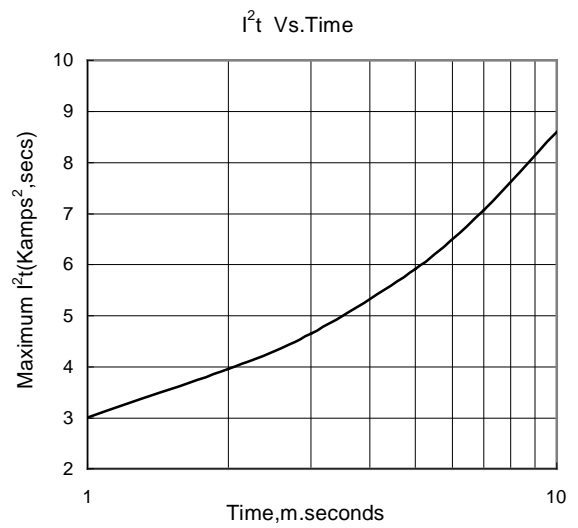


Fig.8

Outline:

