



Features:

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

Typical Applications

- n Various rectifiers
- n DC supply for PWM inverter

V _{RRM}	Type & Outline
800V	MDC240-08-216F3A
1000V	MDC240-10-216F3A
1200V	MDC240-12-216F3A
1400V	MDC240-14-216F3A
1600V	MDC240-16-216F3A
1800V	MDC240-18-216F3A
1800V	MD240-18-216F3AG

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			240	A
I _{F(RMS)}	RMS forward current					378	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			20	mA
I _{FSM}	Surge forward current	V _R =60%V _{RRM} , t=10ms half sine.	150			7.5	kA
I ² t	I ² t for fusing coordination					281	10 ³ A ² s
V _{FO}	Threshold voltage		150			0.75	V
r _F	Forward slope resistance					0.70	mΩ
V _{FM}	Peak forward voltage	I _{FM} =720A	25			1.60	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine. Single side cooled				0.18	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	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)			4.5		6.0	N·m
	Mounting torque(M6)			4.5		6.0	N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				330		g
Outline	216F3A						

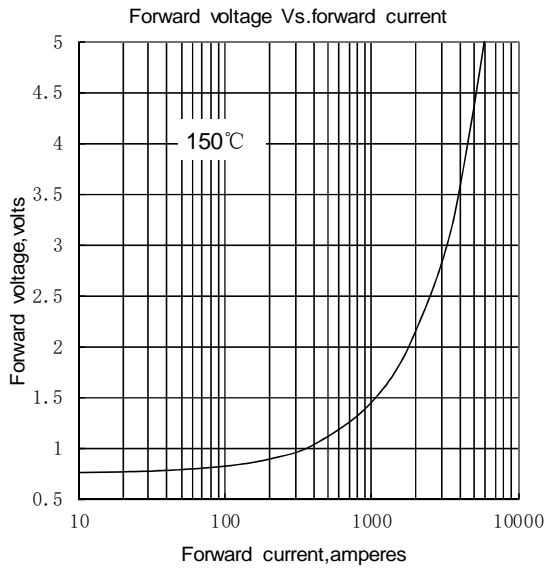


Fig.1

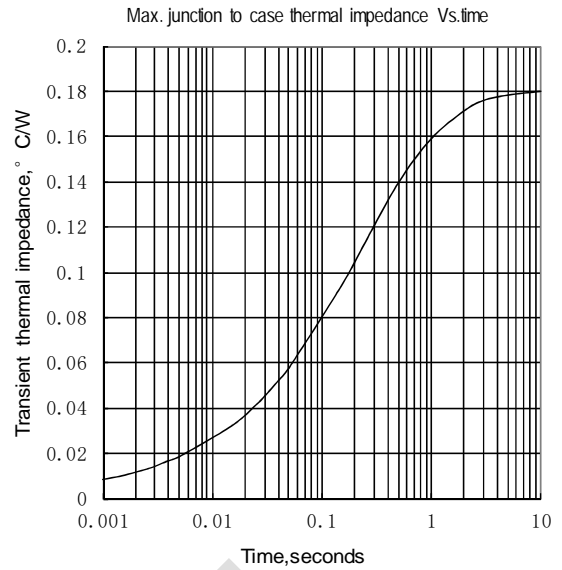


Fig.2

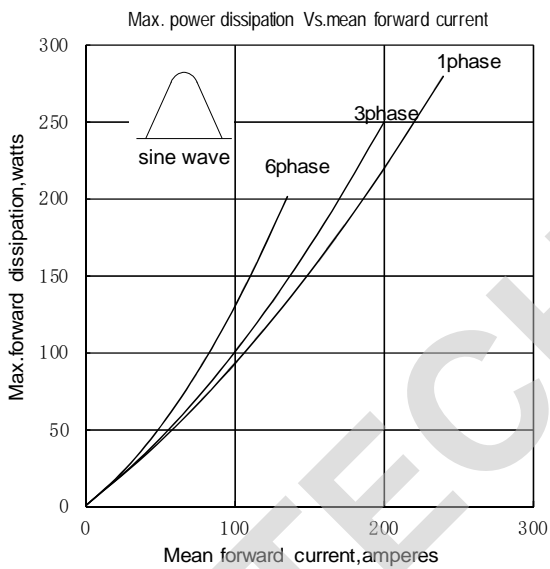


Fig.3

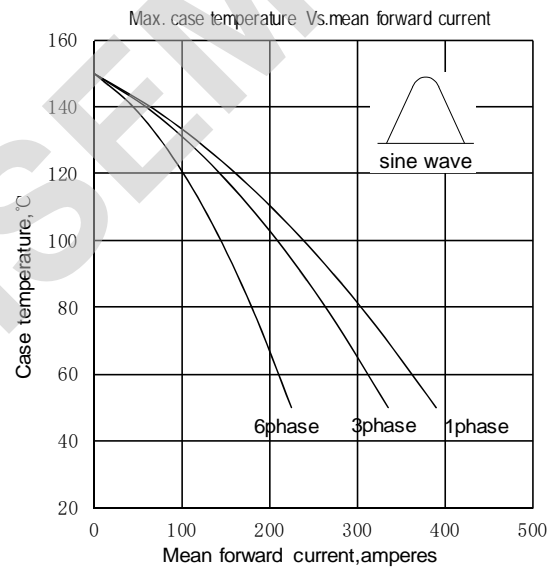


Fig.4

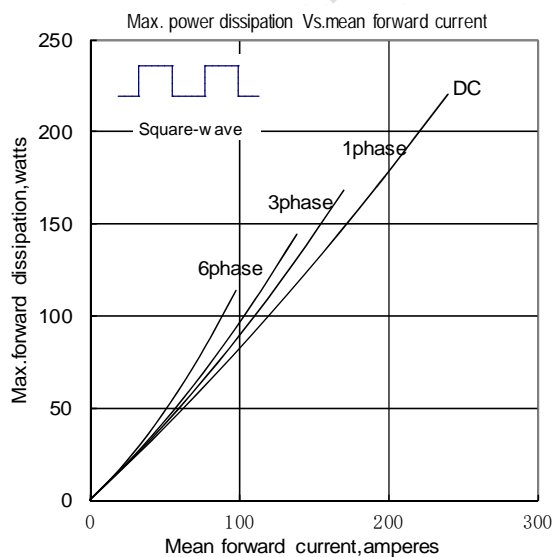


Fig.5

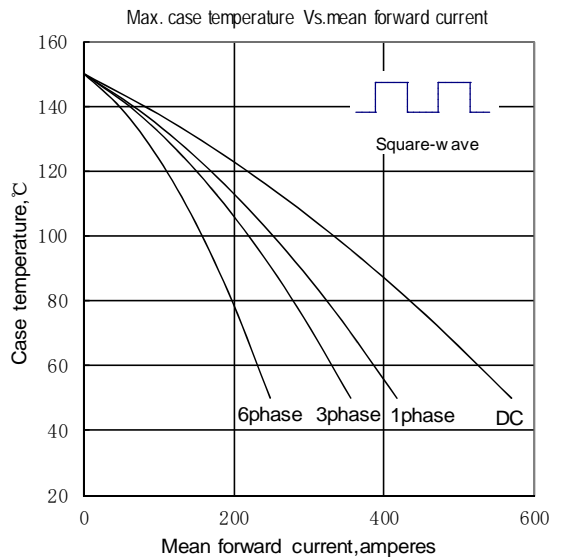


Fig.6

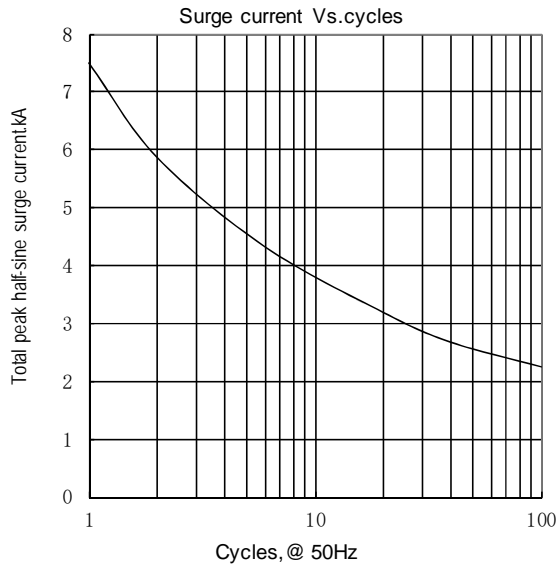


Fig.7

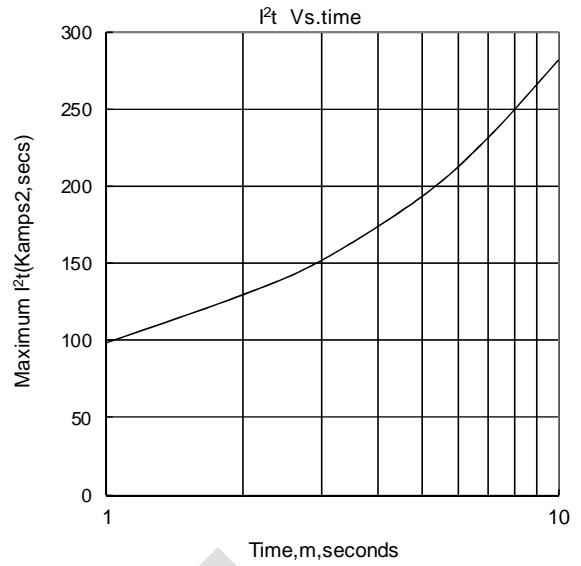
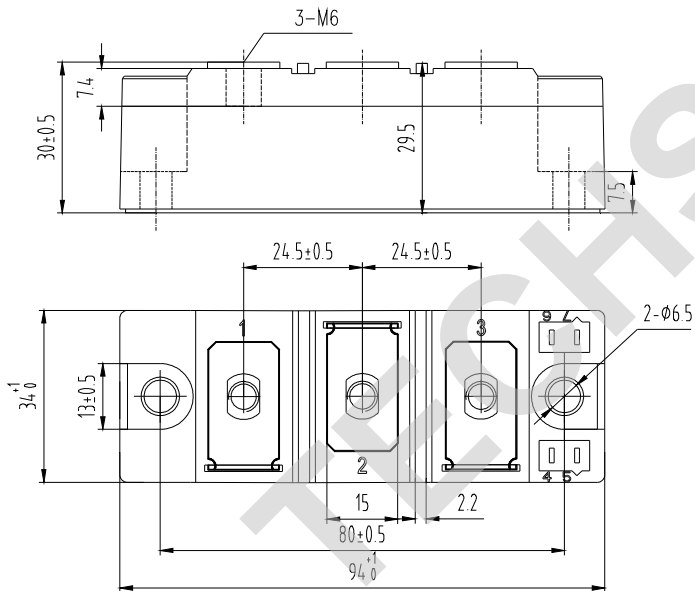
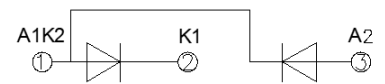


Fig.8

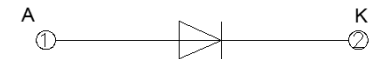
Outline:



MDC



MD(G)



Unmarked dimensional tolerance: $\pm 0.5\text{mm}$

TECHSEM reserves the right to change specifications without notice.