



Features:

- n Non-isolated. Mounting base as common anode cathode terminal.
- n Pressure contact technology with Increased power cycling capability
- n Low forward voltage drop

Typical Applications:

- n Welding Power Supply
- n Various Dc power supplies.

V _{RRM}	Type & Outline	
2000V	MD200-20-210F2NA	MD200-20-210F2NK
2200V	MD200-22-210F2NA	MD200-22-210F2NK
2500V	MD200-25-210F2NA	MD200-25-210F2NK

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			200	A
I _{F(RMS)}	RMS forward current					314	A
I _{R(RM)}	Repetitive peak current	at V _{RRM}	150			12	mA
I _{FSM}	Surge forward current	V _R =60%V _{RRM} , t=10ms half sine	150			5.8	kA
I ² t	I ² t for fusing coordination					168	10 ³ A ² s
V _{FO}	Threshold voltage		150			0.78	V
r _F	Forward slope resistance					0.95	mΩ
V _{FM}	Peak forward voltage	I _{FM} =600A	25			1.60	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled per chip				0.20	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled per chip				0.10	°C/W
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				185		g
Outline	210F2NA, 210F2NK						

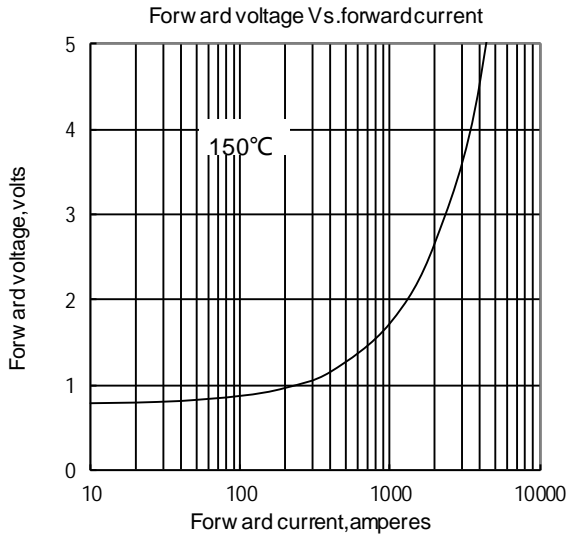


Fig.1

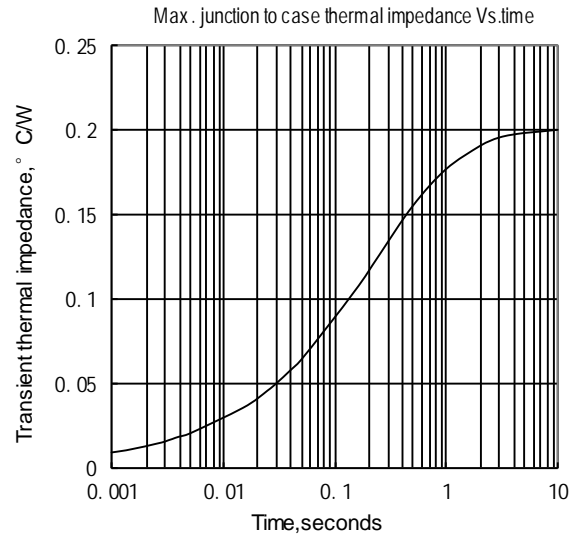


Fig.2

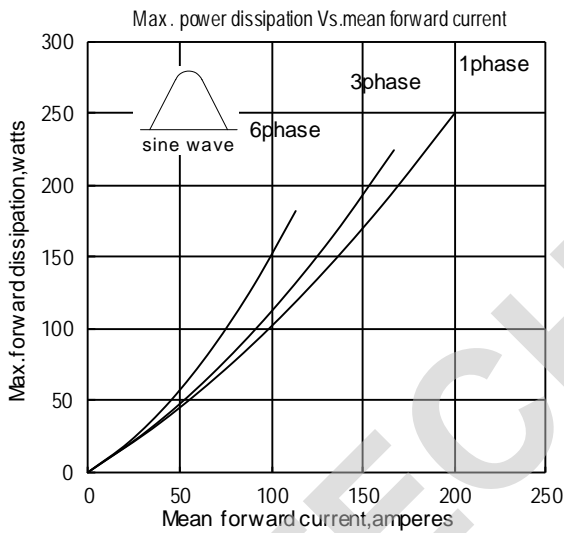


Fig.3

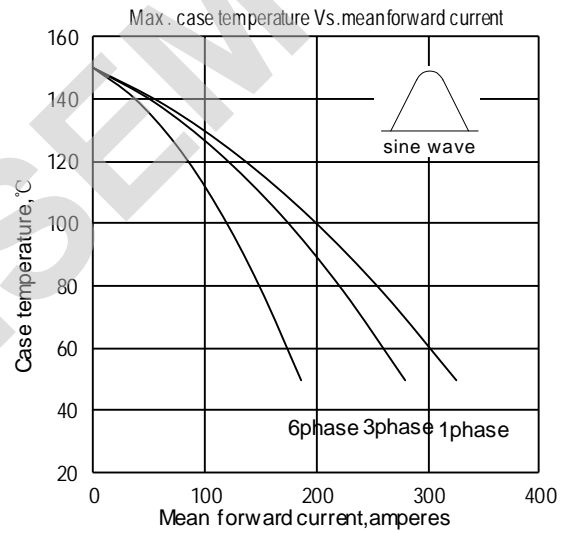


Fig.4

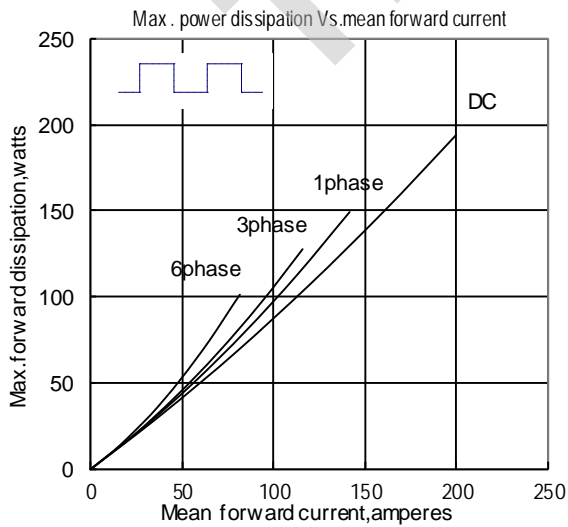


Fig.5

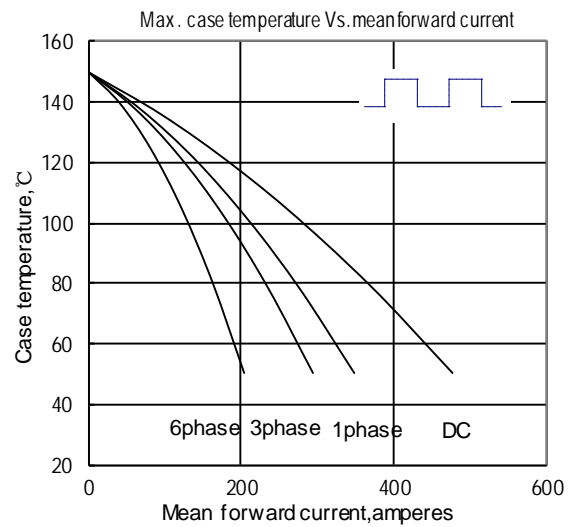


Fig.6

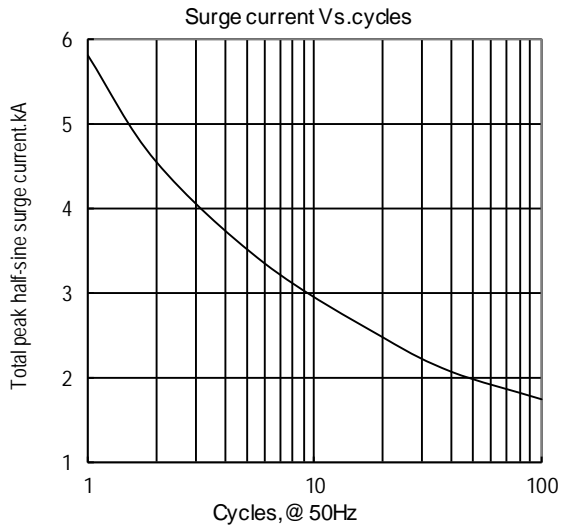


Fig.7

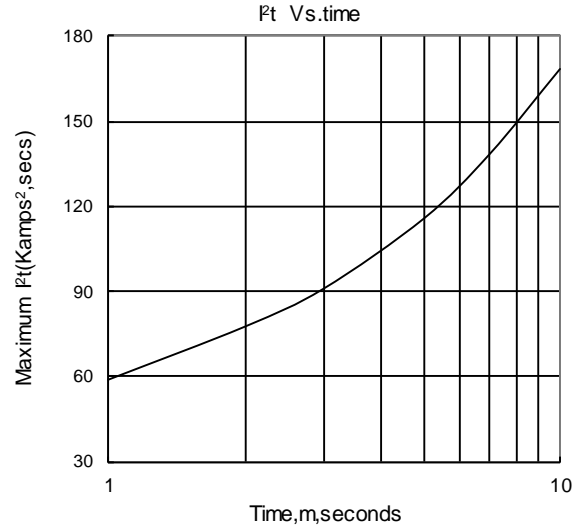
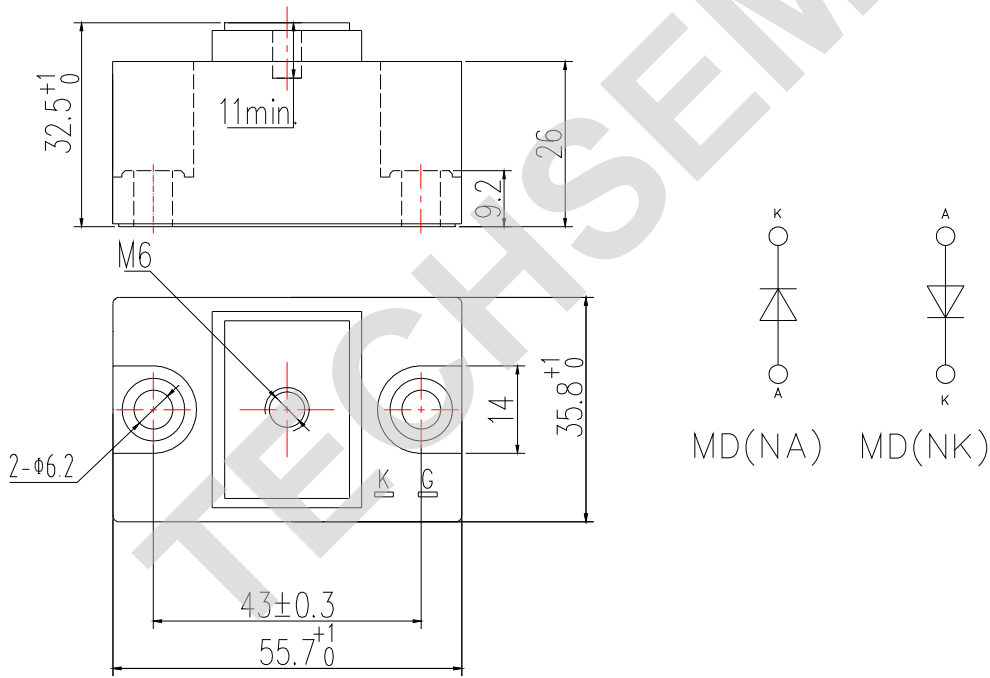


Fig.8

Outline:



Unmarked dimensional tolerance: ± 0.5 mm

TECHSEM reserves the right to change specifications without notice.