

**Features:**

- Isolated mounting base 3000V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

**Typical Applications:**

- Various rectifiers
- DC supply for PWM inverter

V <sub>RRM</sub>	Type & Outline
2000V	MD1000-20-432F2
2200V	MD1000-22-432F2
2500V	MD1000-25-432F2

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>C</sub> =100°C	150			1000	A
I <sub>F(RMS)</sub>	RMS forward current					1570	A
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			50	mA
I <sub>FSM</sub>	Surge forward current	V <sub>R</sub> =60%V <sub>RRM</sub> , t=10ms half sine	150			28	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					3920	10 <sup>3</sup> A <sup>2</sup> s
V <sub>FO</sub>	Threshold voltage		150			0.83	V
r <sub>F</sub>	Forward slope resistance					0.12	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =3000A	25			1.44	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	Single side cooled per chip				0.045	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink	Single side cooled per chip				0.020	°C/W
V <sub>iso</sub>	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> :1mA(MAX)		3000			V
F <sub>m</sub>	Terminal connection torque(M12)			12		14	N·m
	Mounting torque(M6)			4.5		6.0	N·m
T <sub>vj</sub>	Junction temperature			-40		150	°C
T <sub>stg</sub>	Stored temperature			-40		125	°C
W <sub>t</sub>	Weight				2700		g
Outline	432F2						

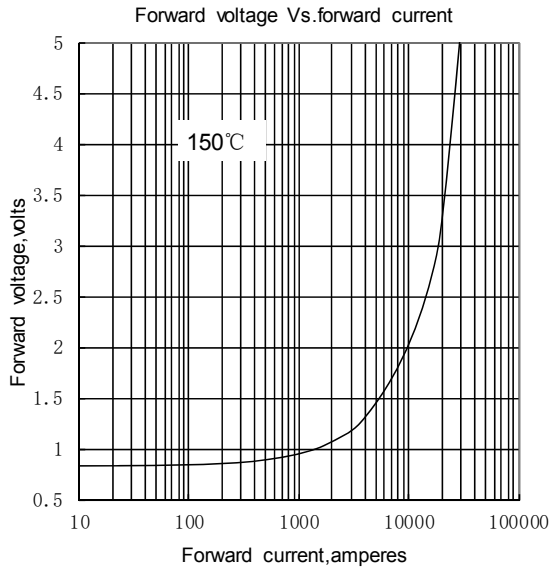


Fig. 1

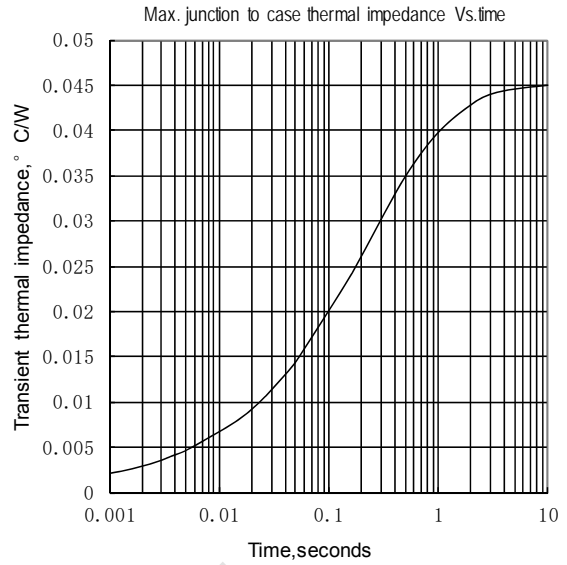


Fig. 2

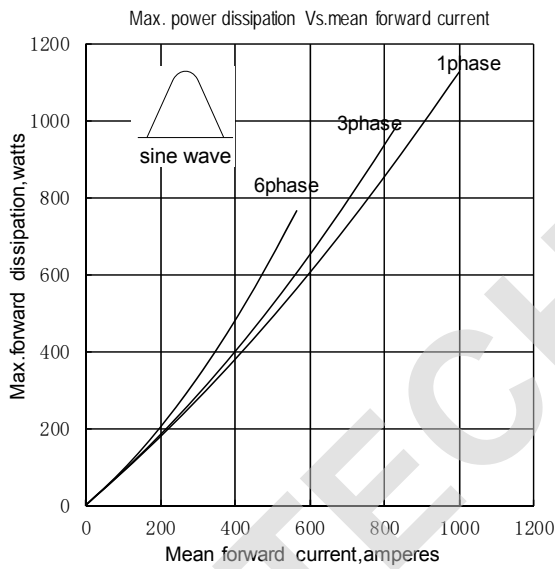


Fig. 3

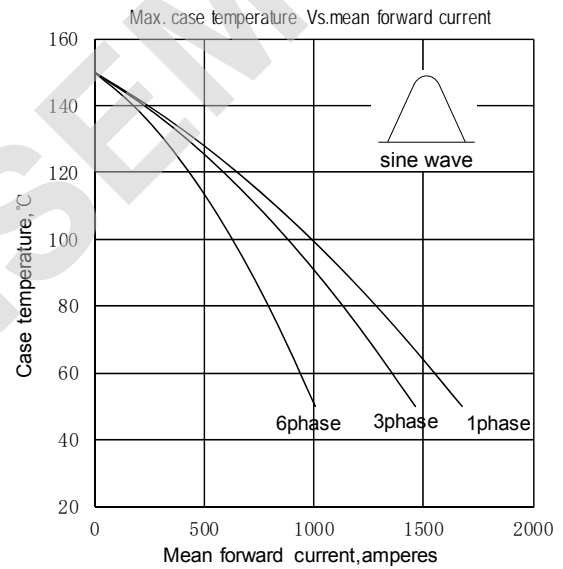


Fig. 4

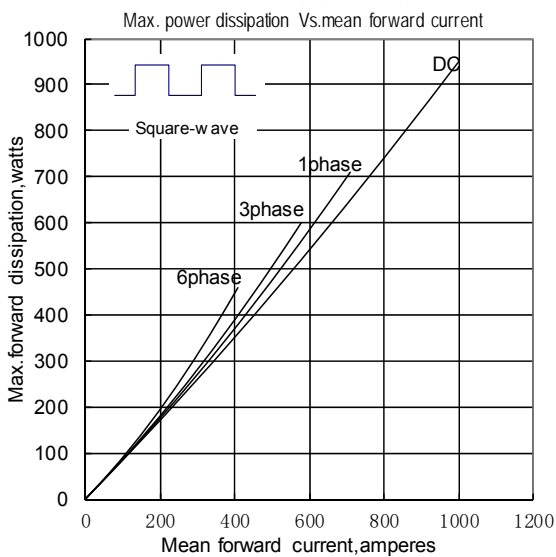


Fig. 5

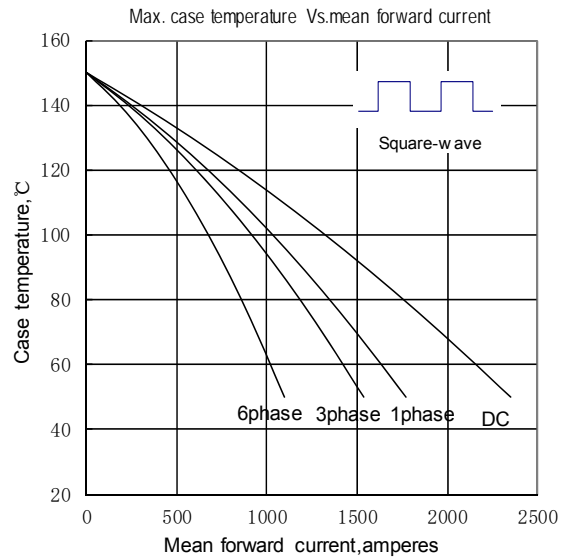


Fig. 6

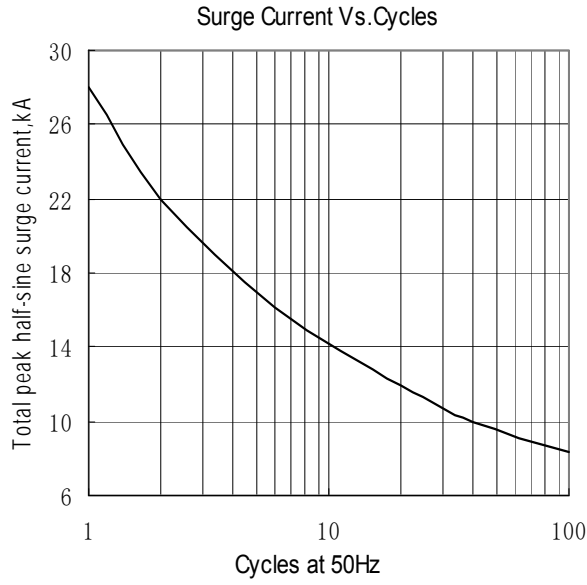


Fig.7

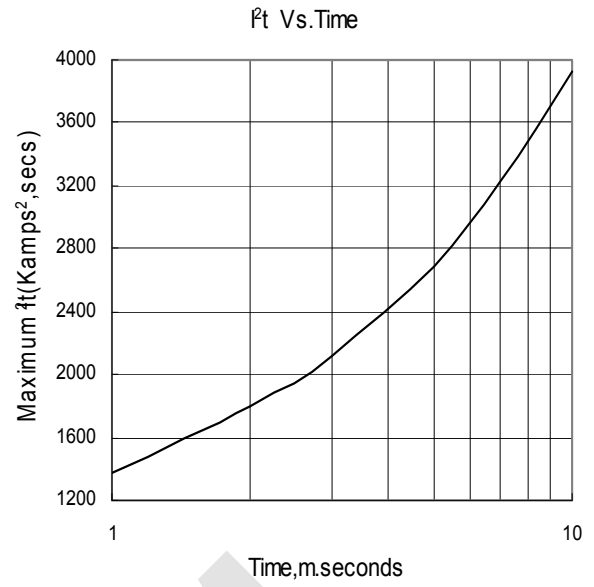
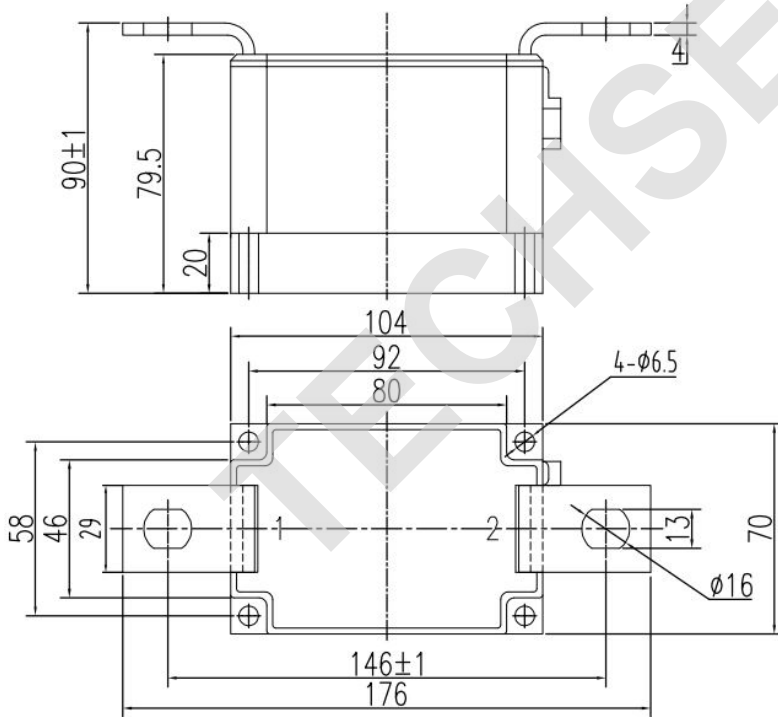


Fig.8

**Outline:**



Unmarked dimensional tolerance: ±0.5mm