

**Features:**

- n Isolated mounting base 4200V~
- 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 <sub>RRM</sub>	Type & Outline
3600V	MD930-36-432F2
3800V	MD930-38-432F2
4000V	MD930-40-432F2
4200V	MD930-42-432F2
4400V	MD930-44-432F2

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>i</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			930	A
I <sub>F(RMS)</sub>	RMS forward current		150			1460	A
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			100	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave , V <sub>R</sub> =0.6V <sub>RRM</sub>	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			0.86	V
r <sub>F</sub>	Forward slope resistance					0.28	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =3000A	25			2.04	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	At 180° sine, Single side cooled				0.042	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink	At 180° sine, Single side cooled				0.010	°C/W
V <sub>iso</sub>	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> :1mA(max)		4200			V
F <sub>m</sub>	Terminal connection torque(M12)			12.0		14.0	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						

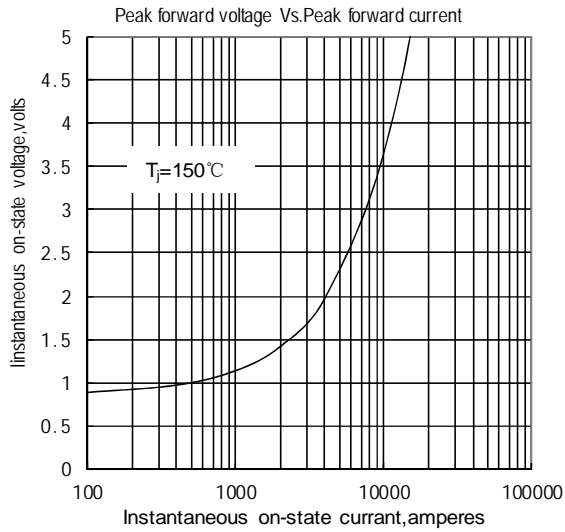


Fig.1

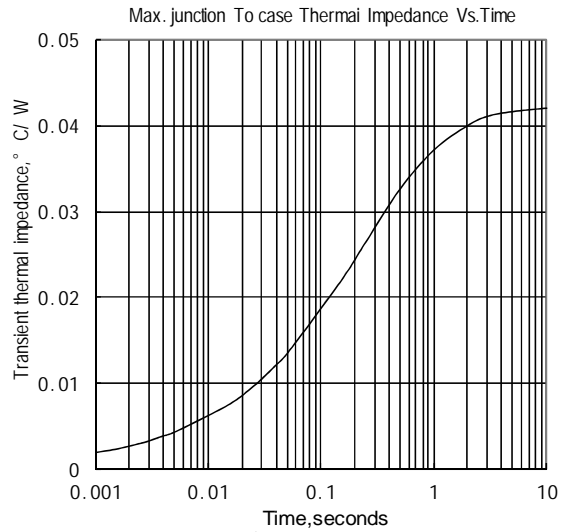


Fig.2

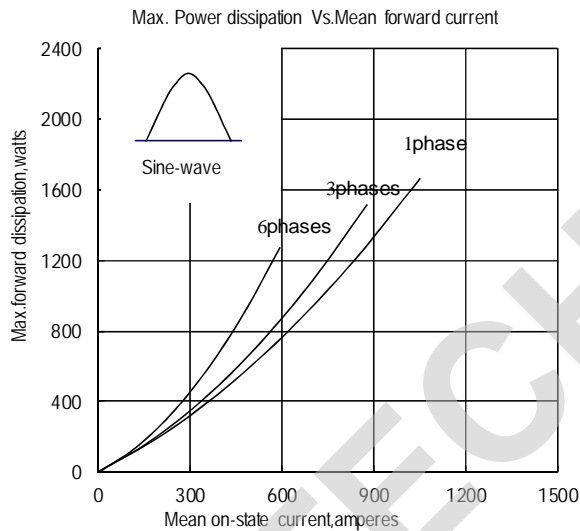


Fig.3

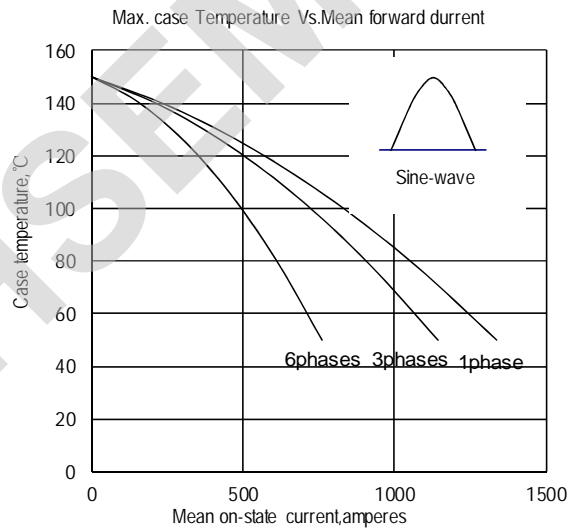


Fig.4

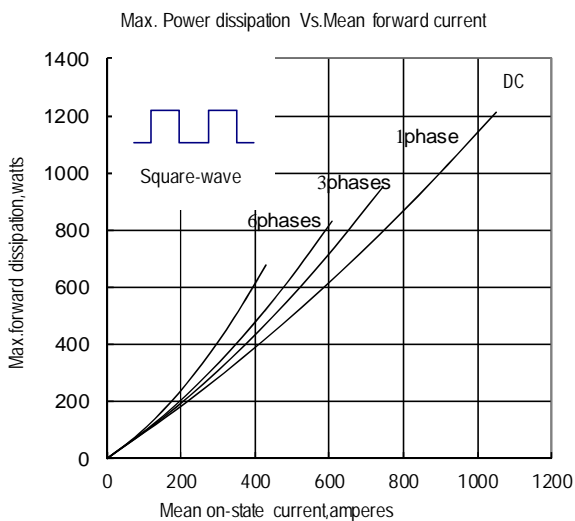


Fig.5

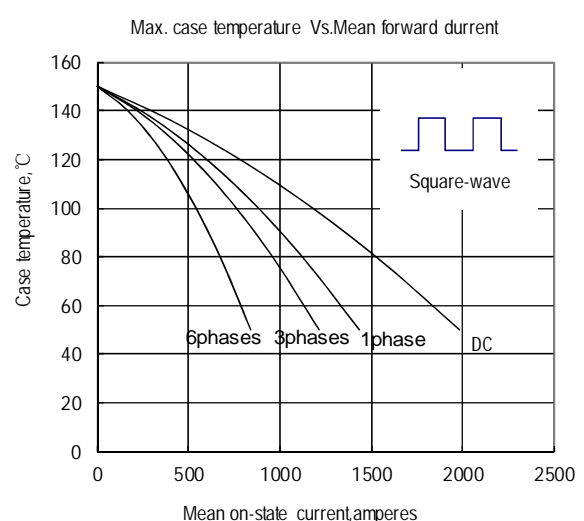


Fig.6

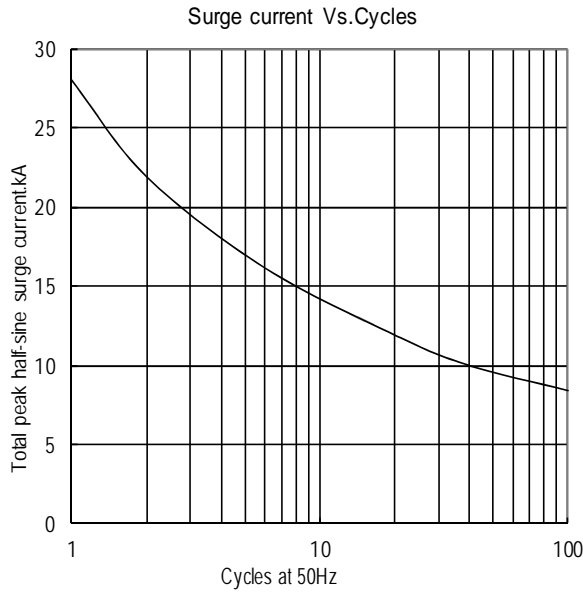


Fig.7

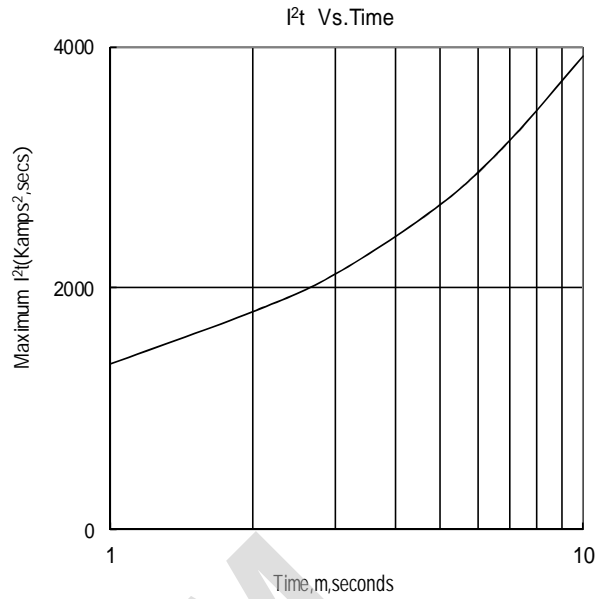
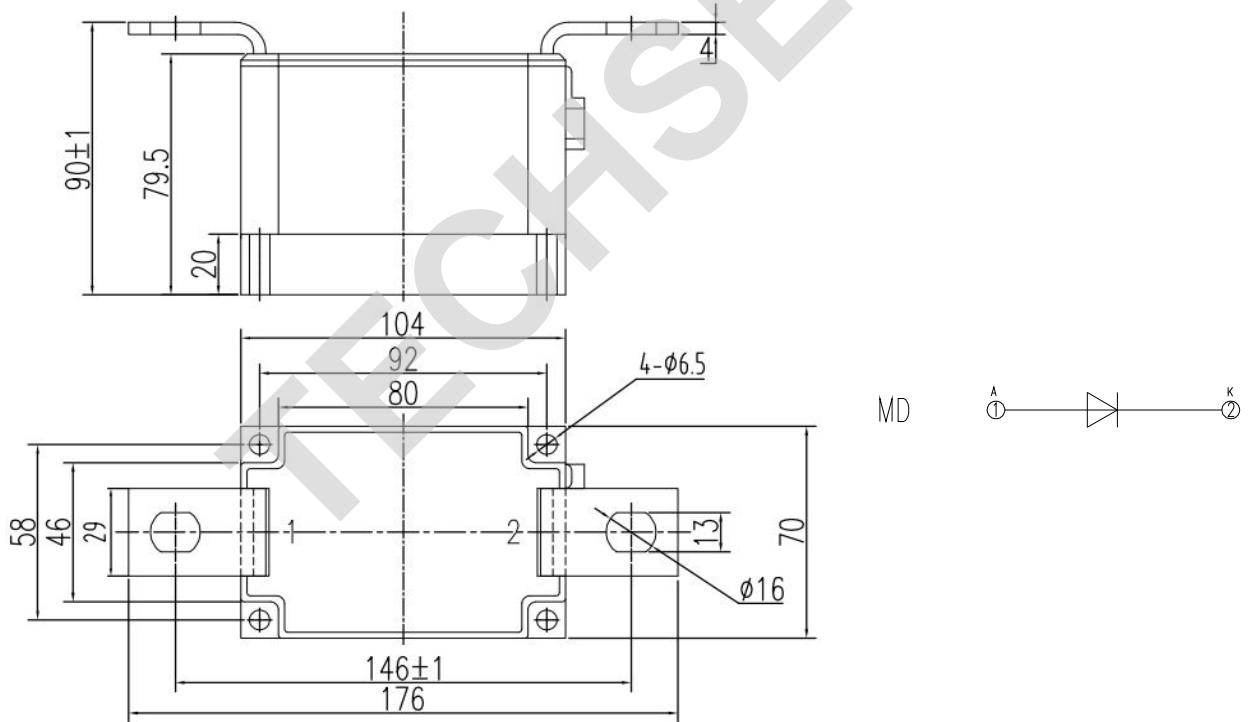


Fig.8

Outline:



Unmarked dimensional tolerance: ±0.5mm