

**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

<b>V<sub>RRM</sub></b>	Type & Outline		
	800V	1000V	1200V
1400V	MDx40-08-215F3	MDx40-10-215F3	MDx40-12-215F3
1600V	MDx40-14-215F3	MDx40-16-215F3	MDx40-18-215F3
1800V	MDx40-18-215F3	MD40-18-215F3G	

MDx stands for any type of **MDC**, **MDA**, **MDK**

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			40	A
I <sub>F(RMS)</sub>	RMS forward current					63	A
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			8	mA
I <sub>FSM</sub>	Surge forward current	V <sub>R</sub> =60%V <sub>RRM</sub> , t=10ms half sine	150			1.0	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					5.0	10 <sup>3</sup> A <sup>2</sup> s
V <sub>FO</sub>	Threshold voltage		150			0.80	V
r <sub>F</sub>	Forward slope resistance					5.57	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =120A	25			1.47	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	Single side cooled per chip				0.90	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink	Single side cooled per chip				0.20	°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(M5)			2.5		4.0	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				120		g
Outline			215F3				

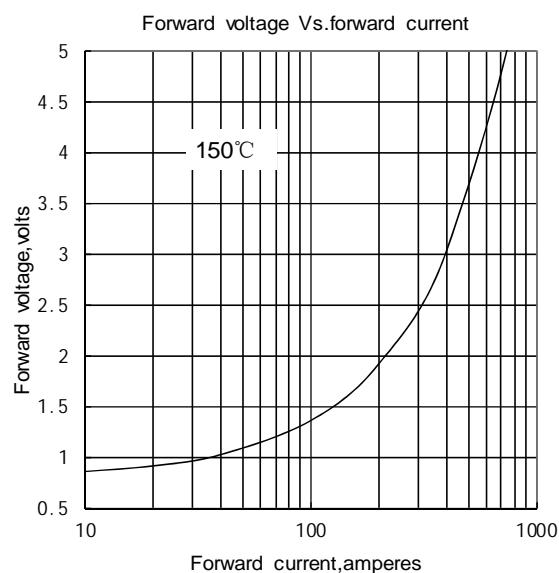


Fig.1

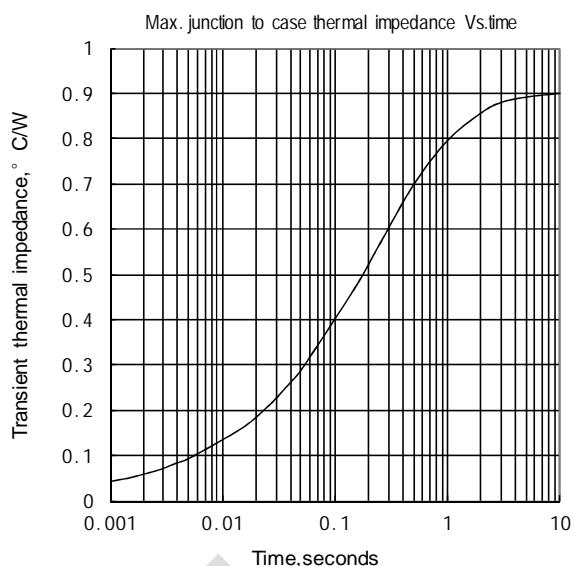


Fig.2

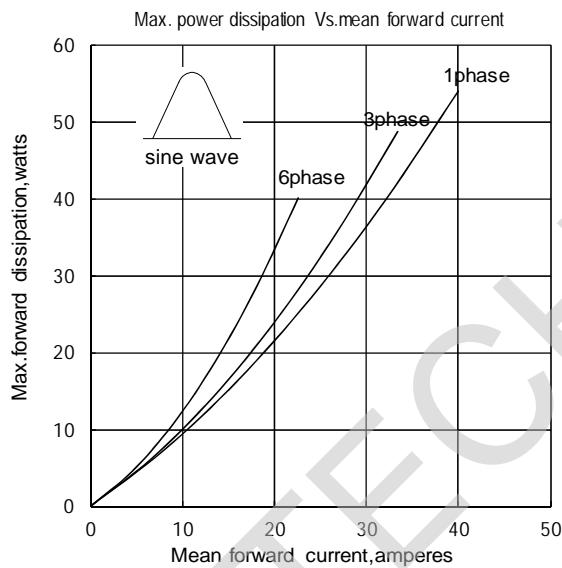


Fig.3

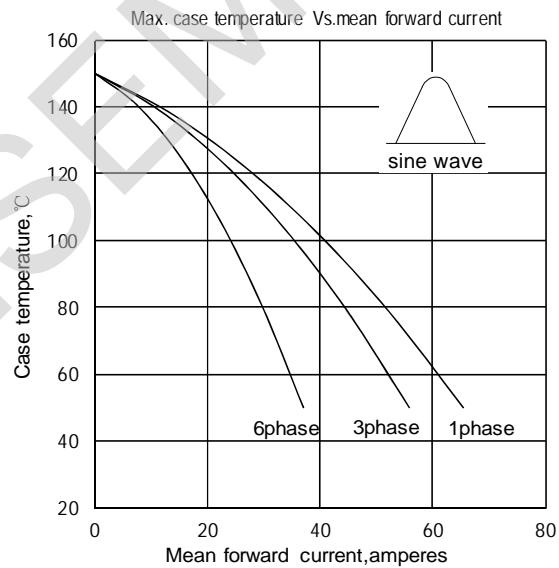


Fig.4

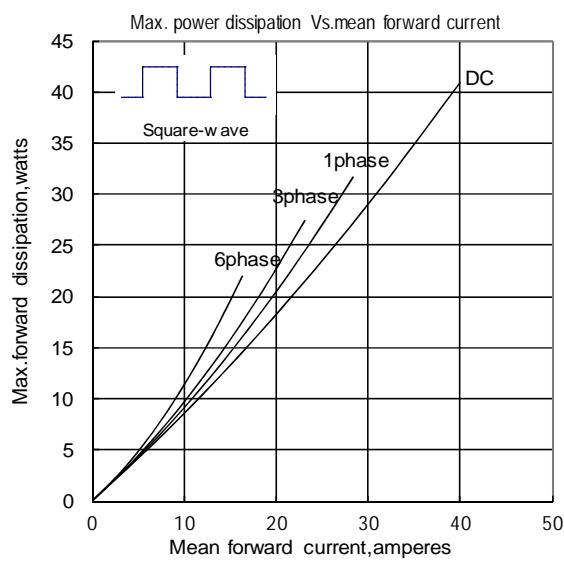


Fig.5

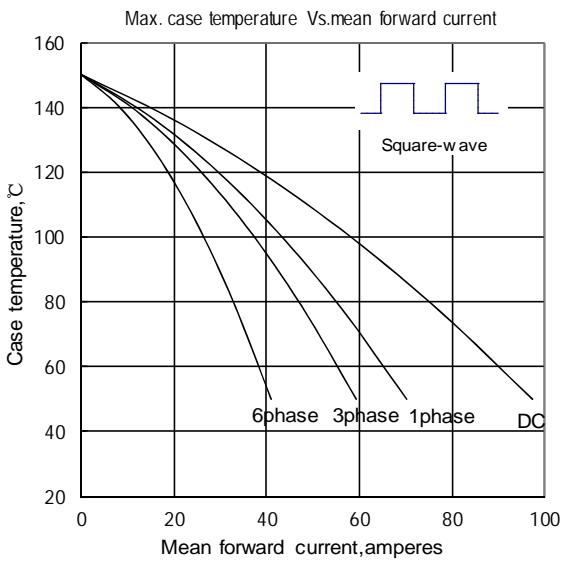


Fig.6

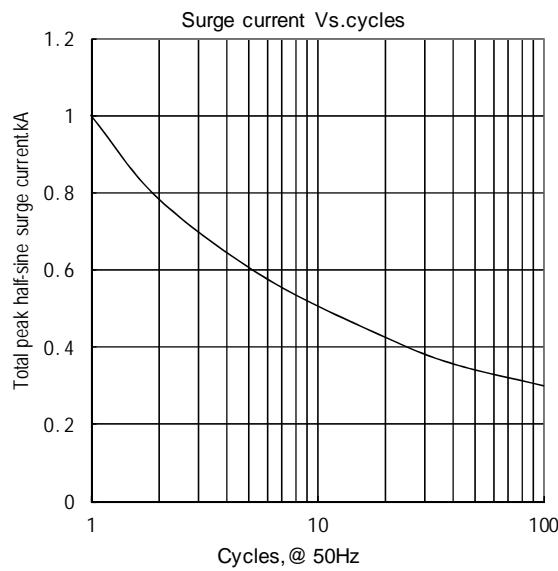


Fig.7

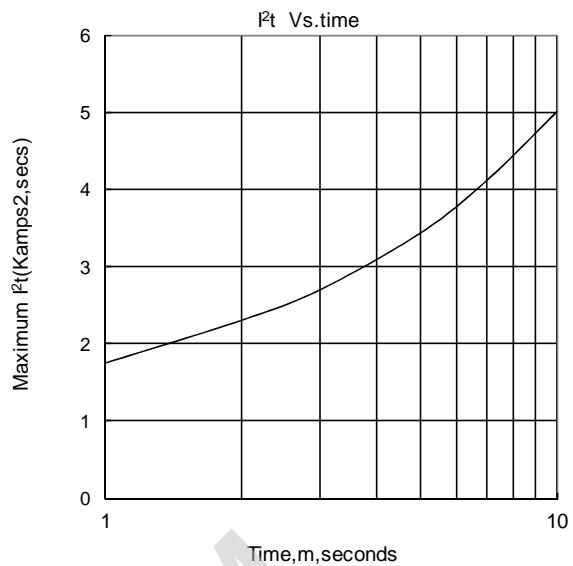
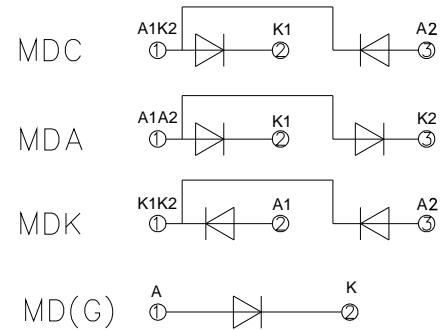
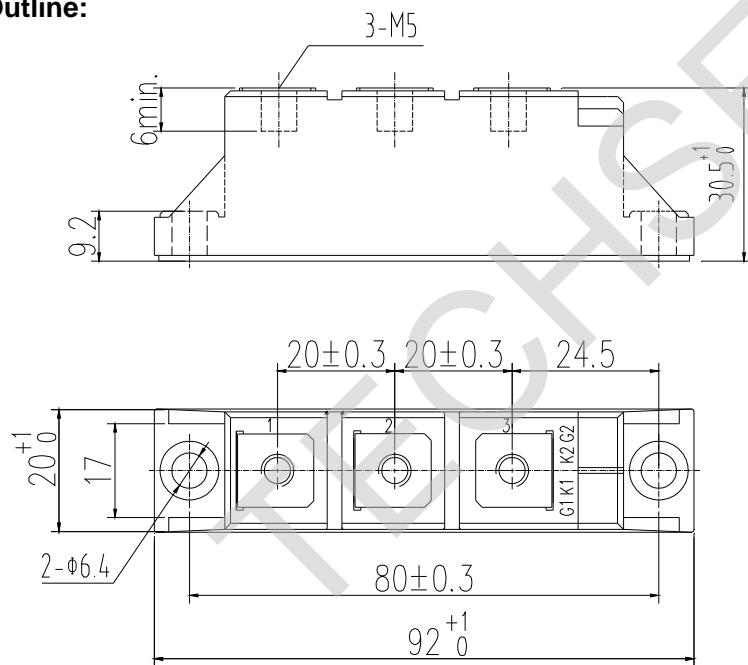


Fig.8

**Outline:**Unmarked dimensional tolerance:  $\pm 0.5$ mm