

**Features:**

- Isolated mounting base 2500V~
- 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	MDx55-08-215F3	MDx55-10-215F3	MDx55-12-215F3
1600V	MDx55-14-215F3	MDx55-16-215F3	MDx55-18-215F3
1800V	MDx55-18-215F3	MD55-18-215F3G	

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			55	A
I <sub>F(RMS)</sub>	RMS forward current					86	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			1.30	kA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					8.45	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					3.47	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =170A	25			1.39	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	Single side cooled per chip				0.70	°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)		2500			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			

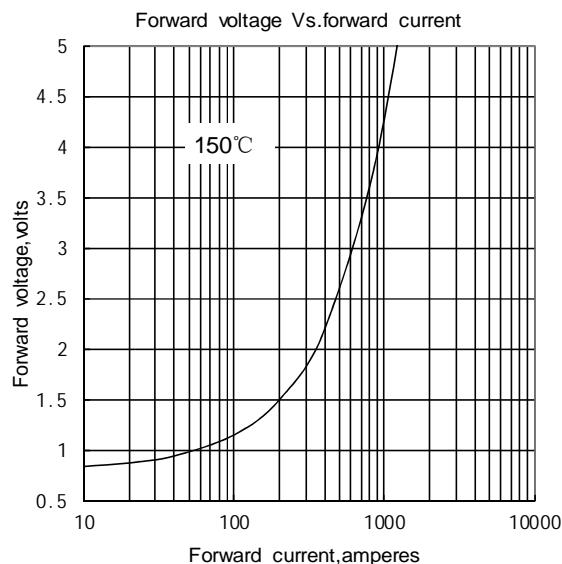


Fig.1

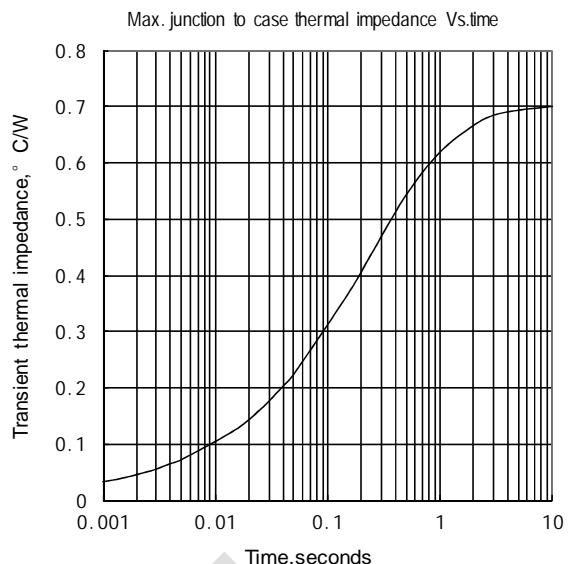


Fig.2

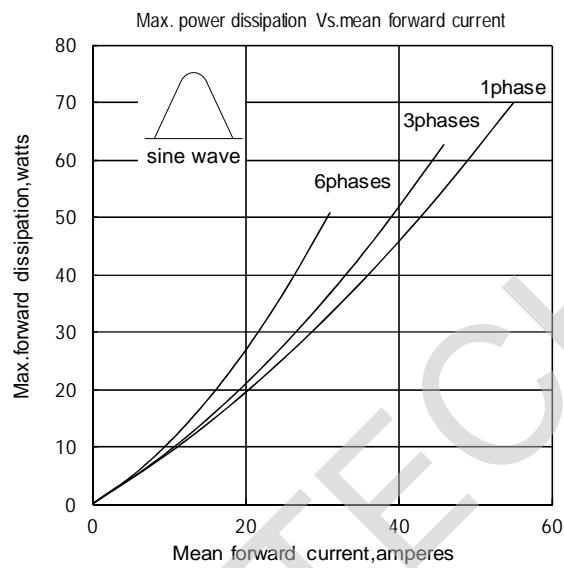


Fig.3

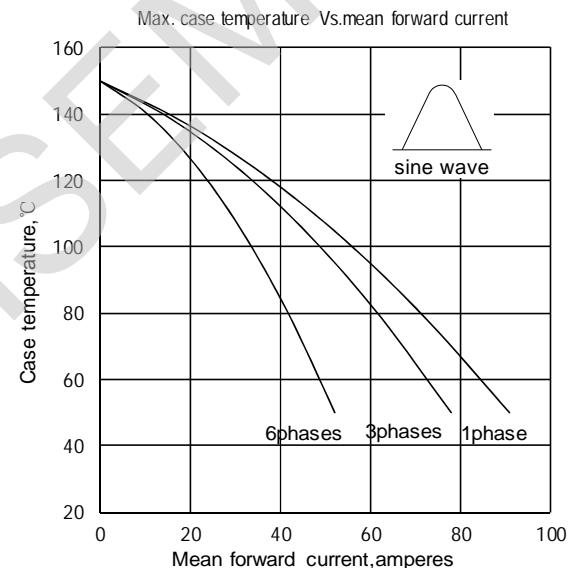


Fig.4

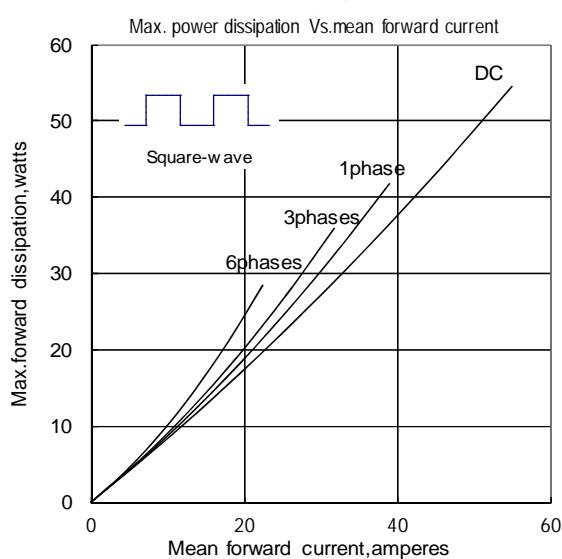


Fig.5

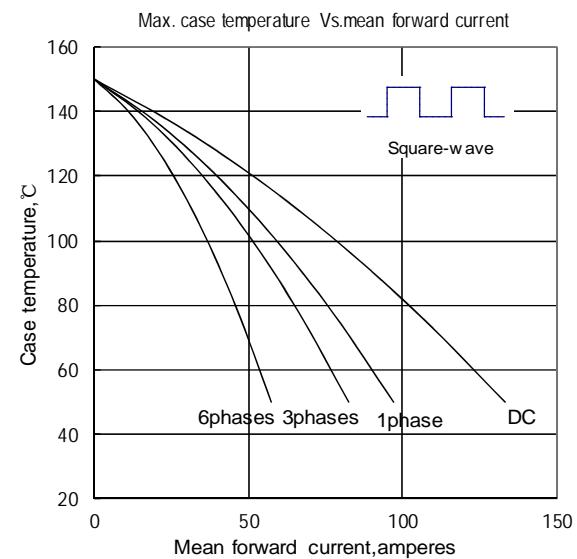


Fig.6

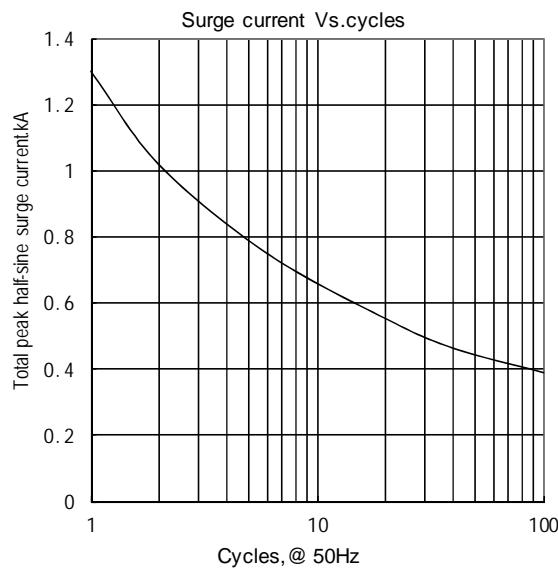


Fig.7

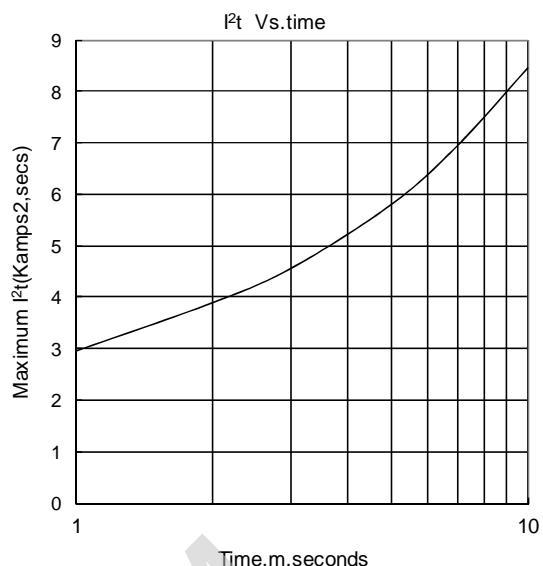


Fig.8

**Outline:**