

**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_{RRM}	Type & Outline
800V	MDx800-08-410F3
1000V	MDx800-10-410F3
1200V	MDx800-12-410F3
1400V	MDx800-14-410F3
1600V	MDx800-16-410F3
1800V	MDx800-18-410F3
1800V	MD800-18-410F3G

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_f (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^\circ\text{C}$	150			800	A
$I_{F(RMS)}$	RMS forward current					1256	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			45	mA
I_{FSM}	Surge forward current	$V_R=60\%V_{RRM}$, $t=10\text{ms}$ half sine	150			22.0	kA
I^2t	I^2t for fusing coordination					2420	$10^3\text{A}^2\text{s}$
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slope resistance					0.18	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=2400\text{A}$	25			1.60	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled per chip				0.050	$^\circ\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled per chip				0.020	$^\circ\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz,R.M.S., $t=1\text{min}$, $I_{iso}:1\text{mA(MAX)}$		3000			V
F_m	Terminal connection torque(M12)			12		16	$\text{N}\cdot\text{m}$
	Mounting torque(M8)			10		12	$\text{N}\cdot\text{m}$
T_{vj}	Junction temperature			-40		150	$^\circ\text{C}$
T_{stg}	Stored temperature			-40		125	$^\circ\text{C}$
W_t	Weight				3310		g
Outline	410F3						

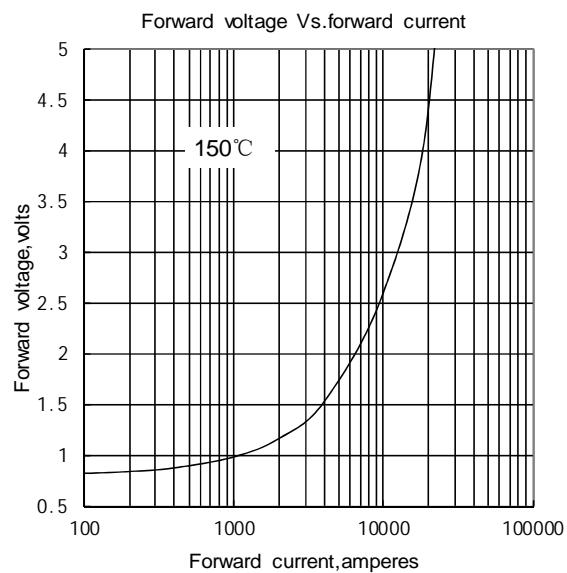


Fig.1

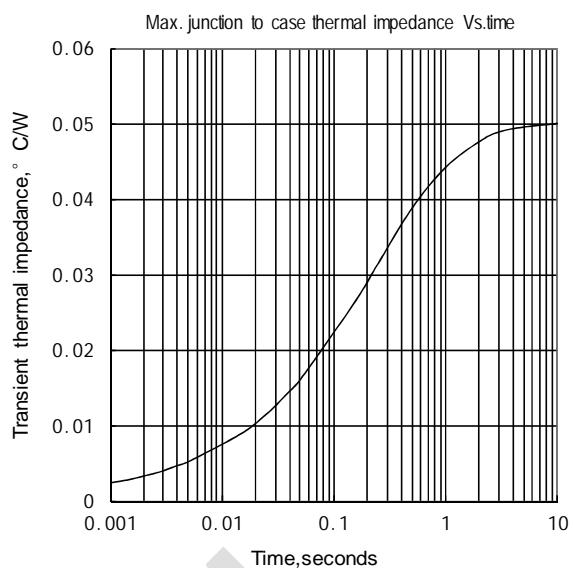


Fig.2

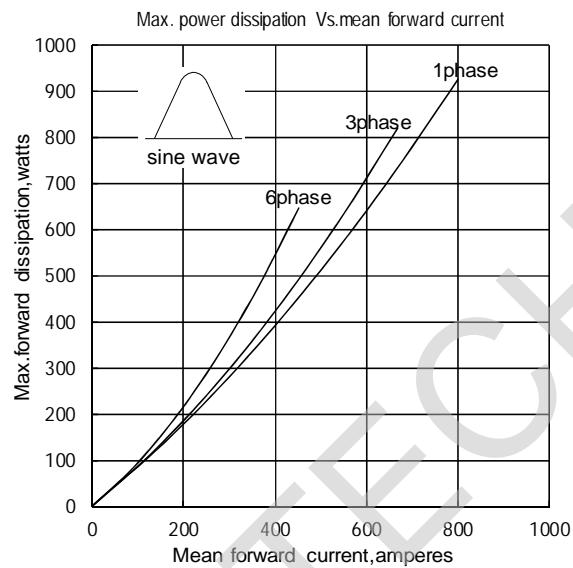


Fig.3

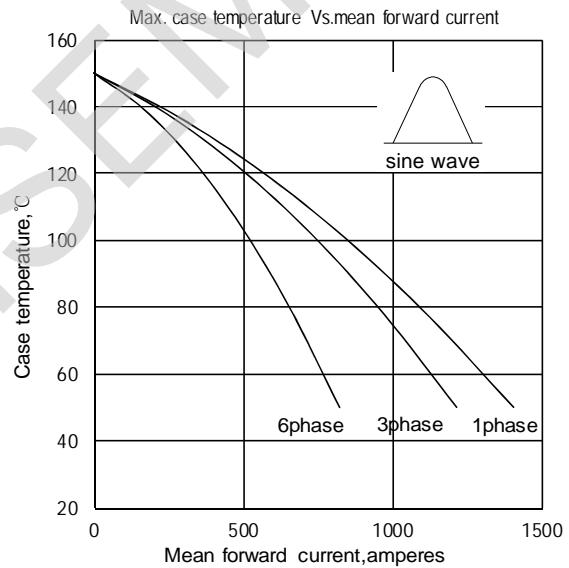


Fig.4

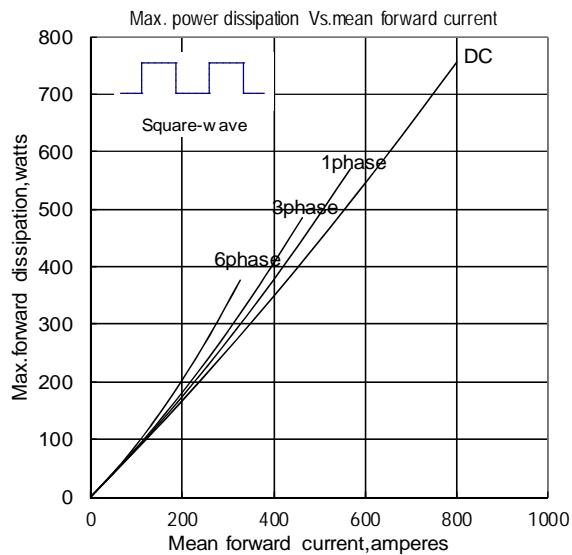


Fig.5

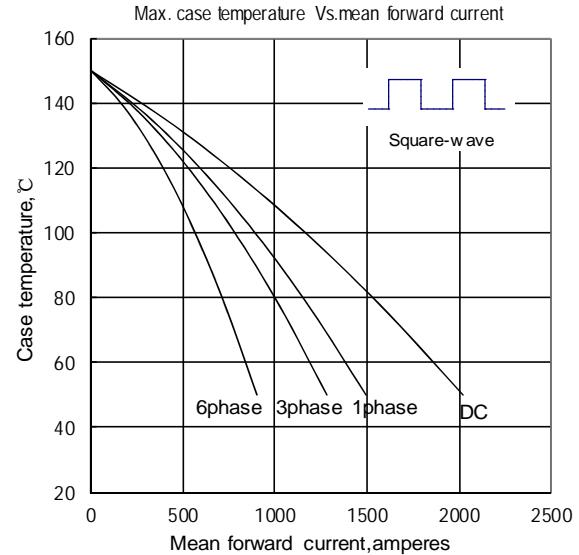


Fig.6

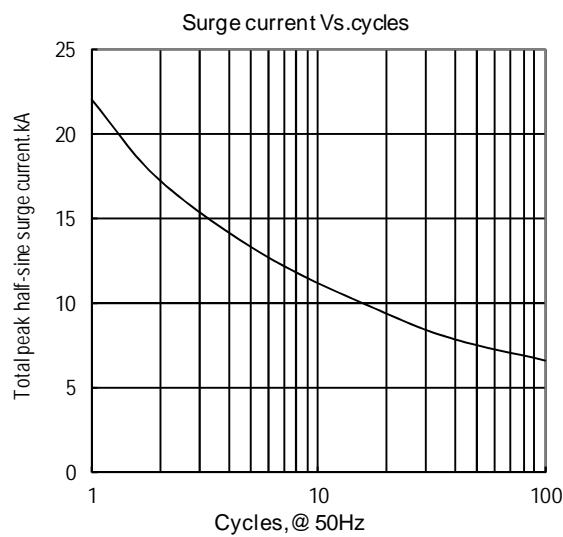


Fig.7

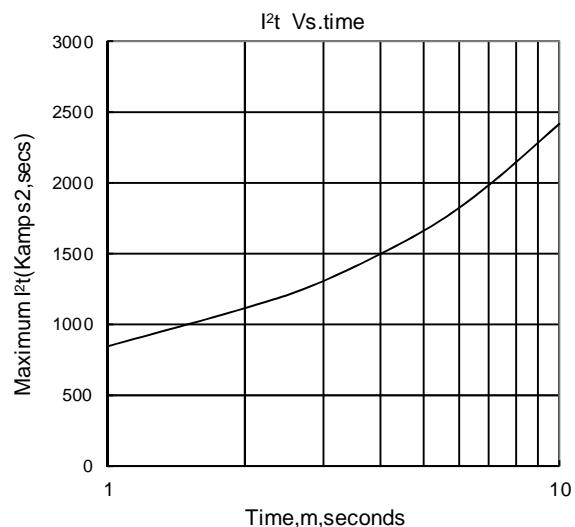
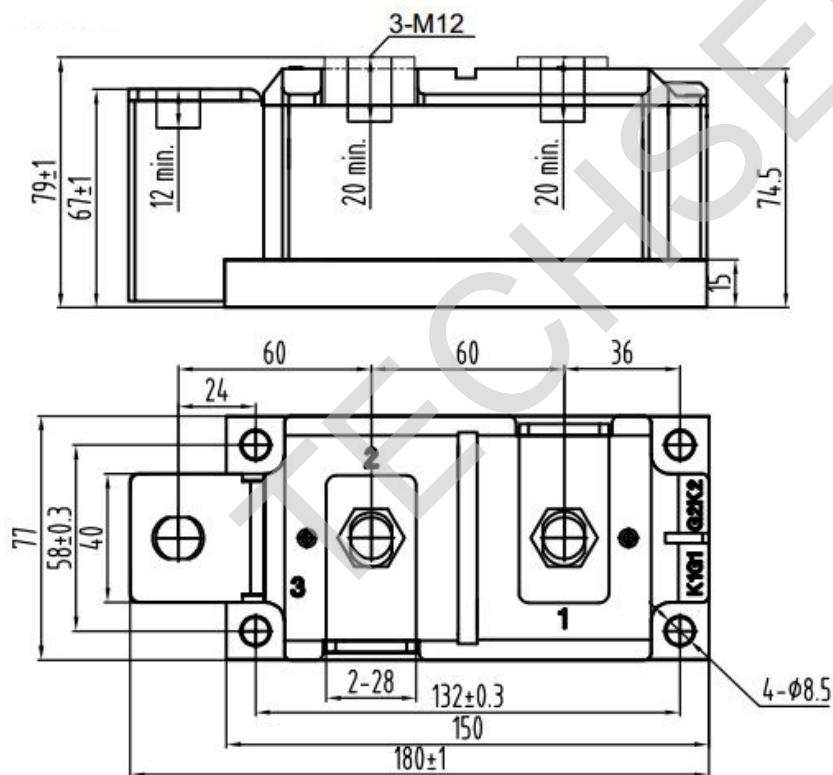


Fig.8

Outline:

Unmarked dimensional tolerance: ±0.5mm

