

**Features :**

- Isolated mounting base 2500V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

**Typical Applications**

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$V_{RSM}$	$V_{RRM}$	Type
900V	800V	Mx1000D80W
1100V	1000V	Mx1000D100W
1300V	1200V	Mx1000D120W
1500V	1400V	Mx1000D140W
1700V	1600V	Mx1000D160W
1900V	1800V	Mx1000D180W

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_C=60^{\circ}C$	150			1000	A
$I_{F(RMS)}$	RMS forward current		150			1570	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			24	kA
$I^2t$	$I^2t$ for fusing coordination					2880	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					0.25	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A$	25			1.82	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled per chip				0.065	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled per chip				0.018	$^{\circ}C/W$
$V_{ISO}$	Isolation voltage	50Hz, R.M.S., $t=1min$ , $I_{ISO}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M12)				14.0		N·m
	Mounting torque(M8)				12.0		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				3460		g
Outline	M15						

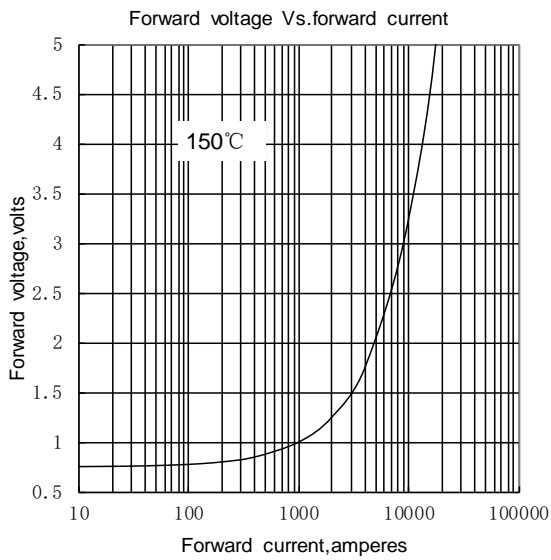


Fig.1

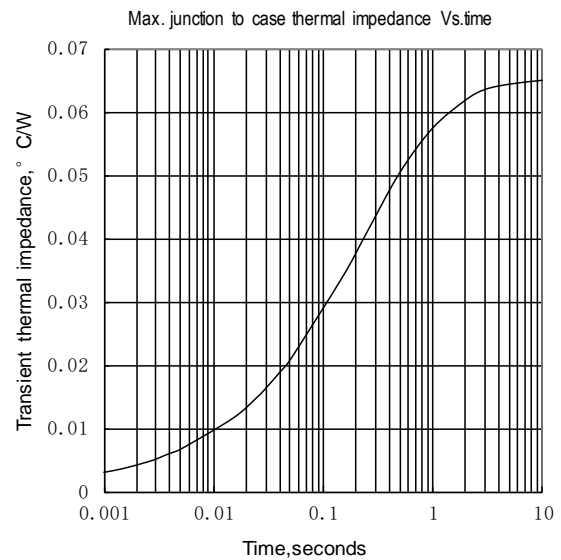


Fig.2

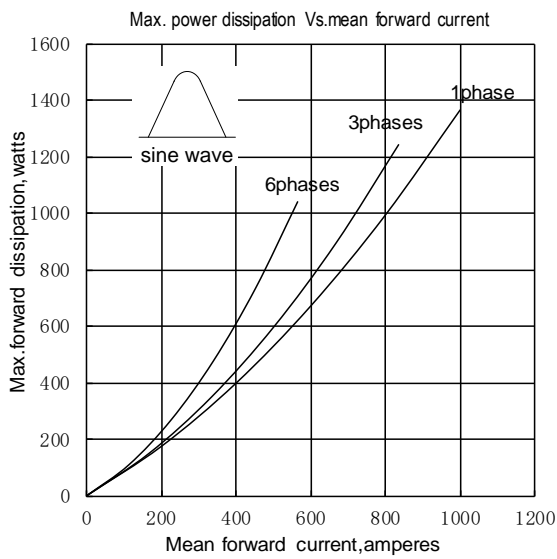


Fig.3

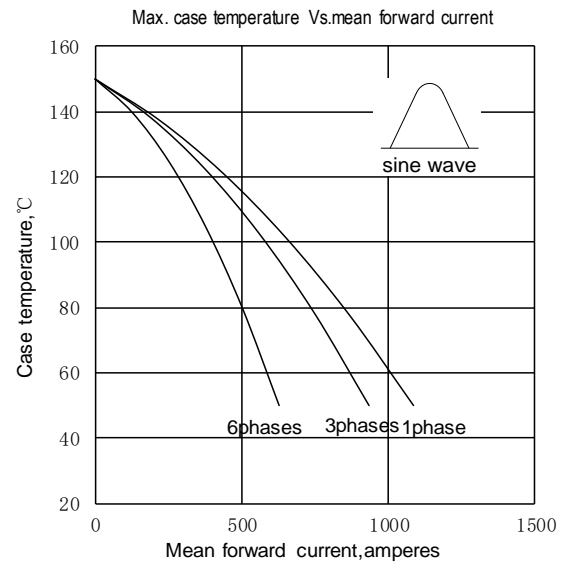


Fig.4

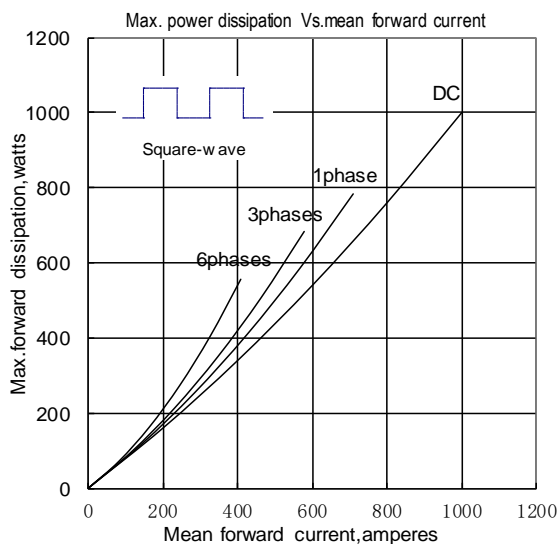


Fig.5

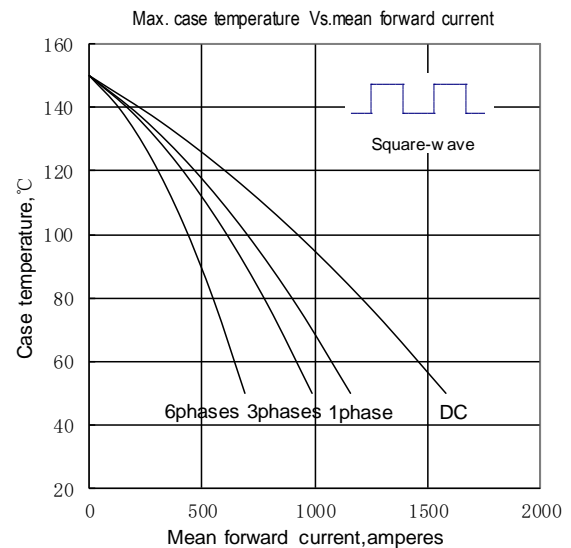
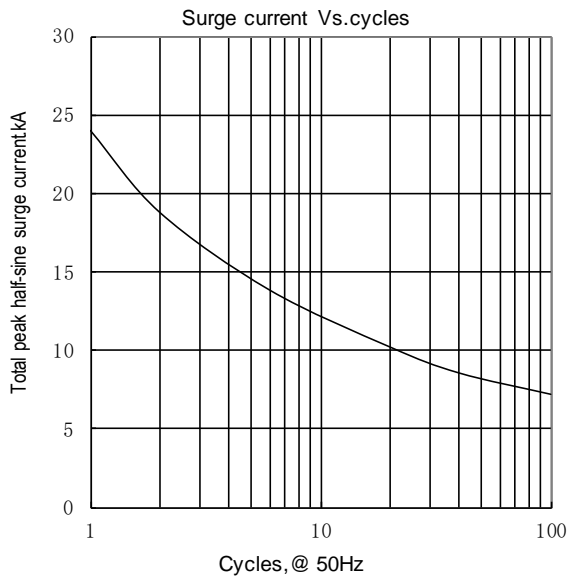
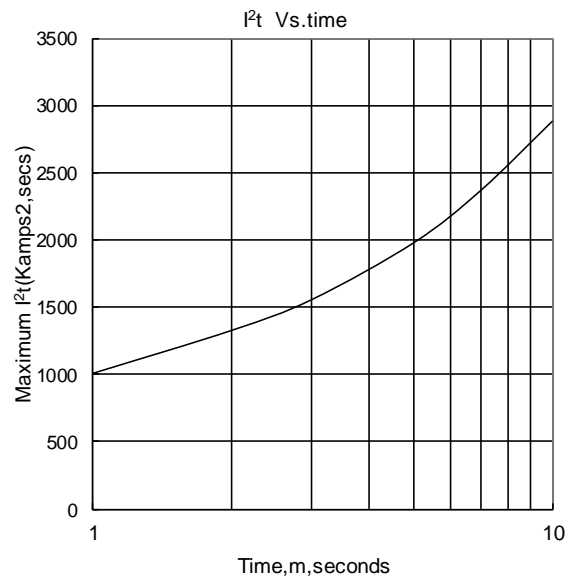


Fig.6

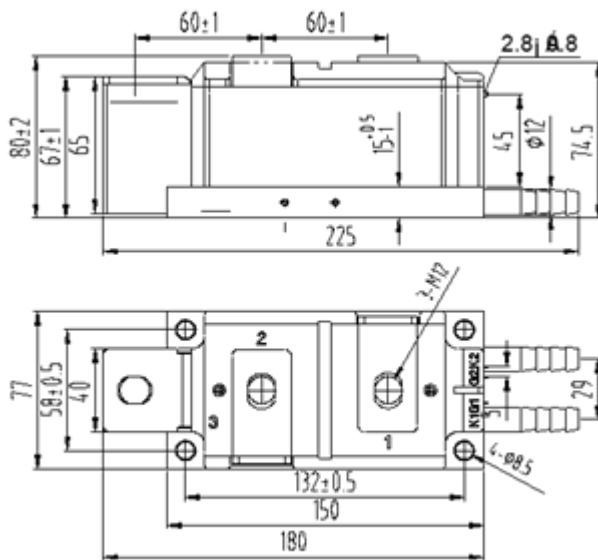


**Fig.7**

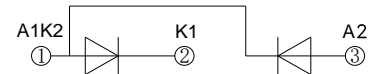


**Fig.8**

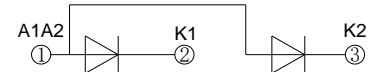
**Outline:**



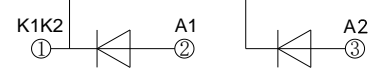
MD1000D\*W



MR1000D\*W



MC1000D\*W



MH1000D\*W

