

**Features :**

- Isolated mounting base3000V~
- Pressure contact technology with  
Increased power cycling capability
- Space and weight saving

**Typical Applications**

- Various rectifiers
- DC supply for PWM inverter

$V_{RSM}$	$V_{RRM}$	品名
2100V	2000V	Mx160D200
2300V	2200V	Mx160D220
2600V	2500V	Mx160D250

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j$ (°C)	VALUE			UNIT
				Min.	Typ.	Max.	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^\circ\text{C}$	150			160	A
$I_{F(RMS)}$	RMS forward current		150			251	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			4.6	kA
$I^2t$	$I^2t$ for fusing coordination					105	$\text{A}^2\text{s}\cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.84	V
$r_F$	Forward slope resistance					1.31	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=480\text{A}$	25			1.47	V
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.23	$^\circ\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.08	$^\circ\text{C}/\text{W}$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$ , $I_{iso}=1\text{mA}(\text{max})$		3000			V
$F_m$	Terminal connection torque(M6)			3.5		5.0	N·m
	Mounting torque(M6)				6.0		N·m
$T_{vj}$	Junction temperature			-40		150	$^\circ\text{C}$
$T_{stg}$	Stored temperature			-40		125	$^\circ\text{C}$
$W_t$	Weight				320		g
<b>Outline</b>	M02						

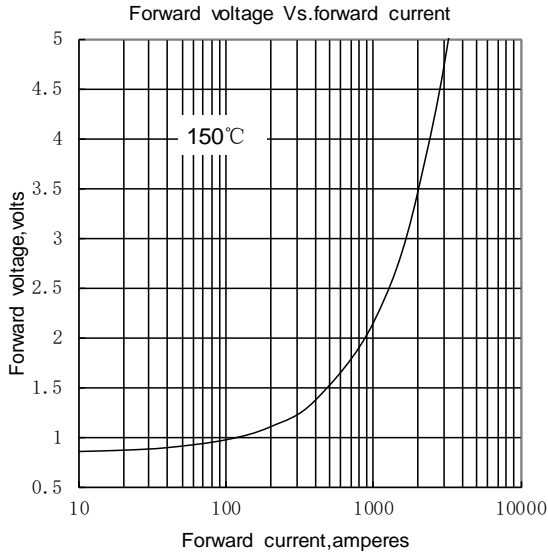


Fig.1

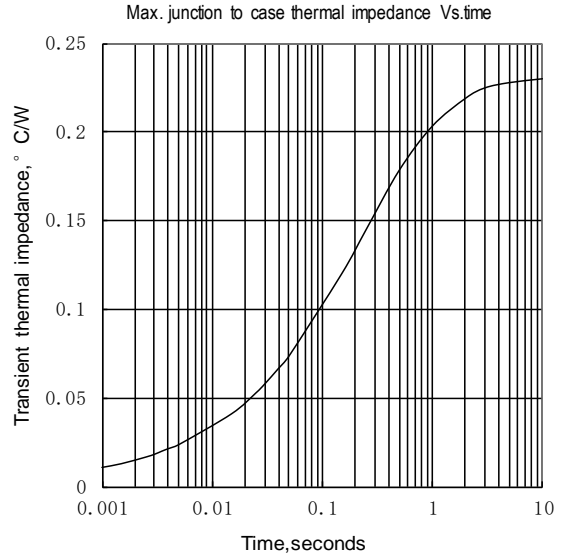


Fig.2

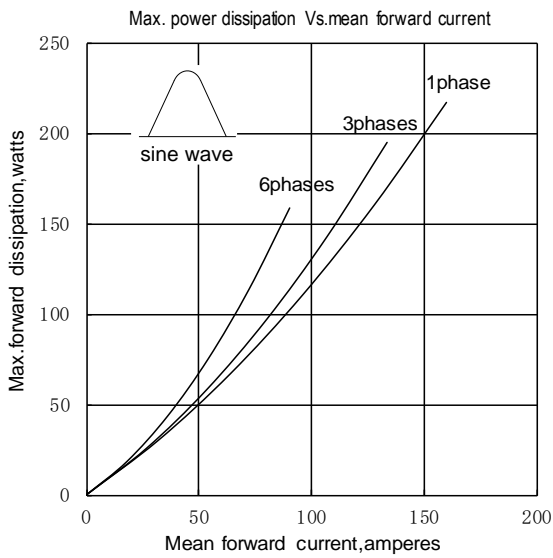


Fig.3

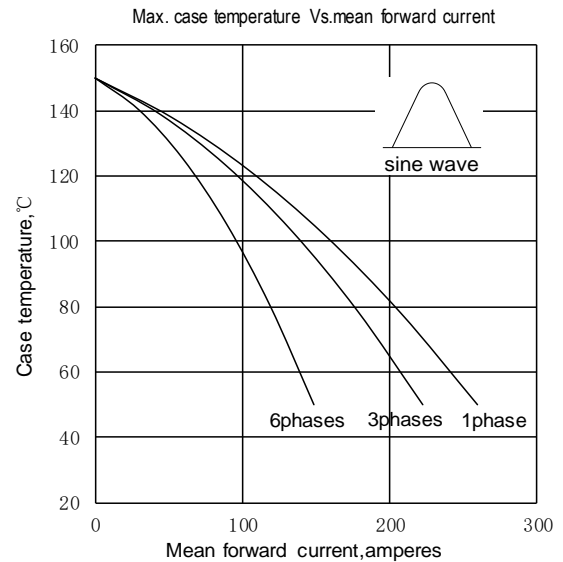


Fig.4

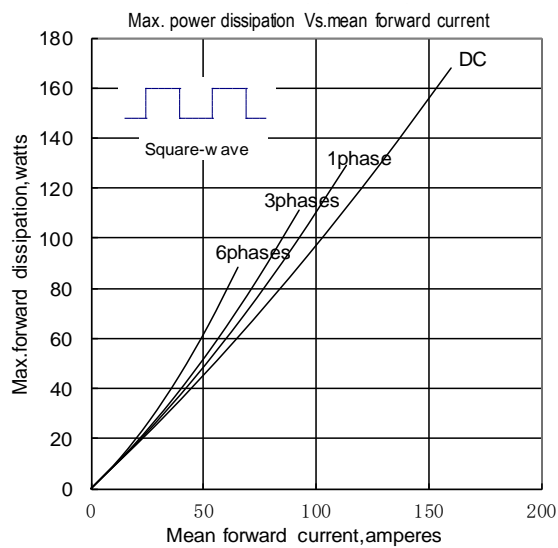


Fig.5

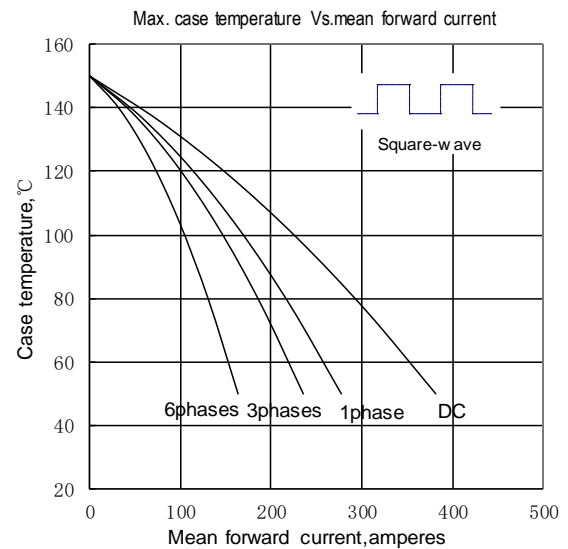


Fig.6

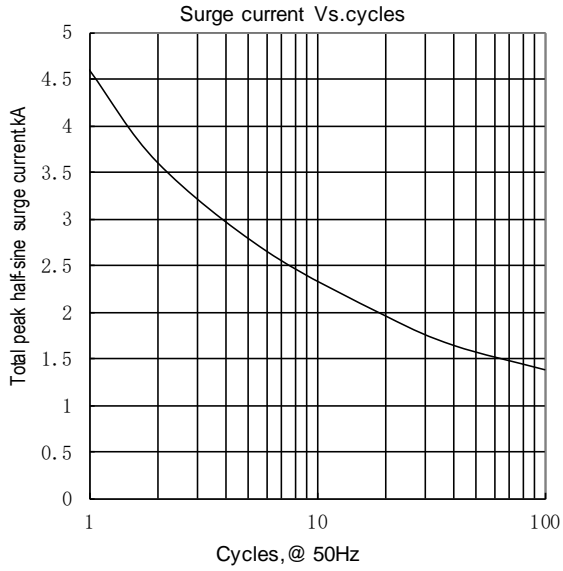
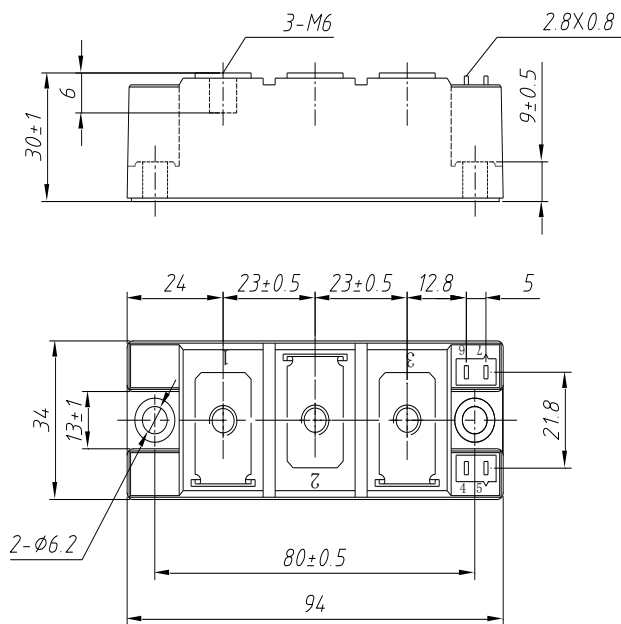
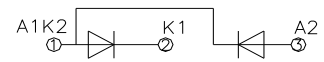


Fig.7

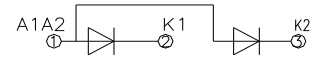


Unmarked dimensional tolerance : ±0.5mm

MD160D\*\*



MR160D\*\*



MC160D\*\*

