

**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

$V_{RSM}$	$V_{RRM}$	品名
900V	800V	Mx70D80
1100V	1000V	Mx70D100
1300V	1200V	Mx70D120
1500V	1400V	Mx70D140
1700V	1600V	Mx70D160
1900V	1800V	Mx70D180

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	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			70	A
$I_{F(RMS)}$	RMS forward current		150			110	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			1.80	kA
$I^2t$	$I^2t$ for fusing coordination					16.2	$\text{A}^2\text{s} \times 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$r_F$	Forward slope resistance					2.50	$\text{m}\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=210\text{A}$	25			1.33	V
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. Single side cooled per chip				0.57	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	D.C. Single side cooled per chip				0.20	$^{\circ}\text{C}/\text{W}$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$ , $I_{iso}: 1\text{mA}(\text{max})$		3000			V
$F_m$	Terminal connection torque(M5)			2.4		3.0	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				170		g
Outline	M01						

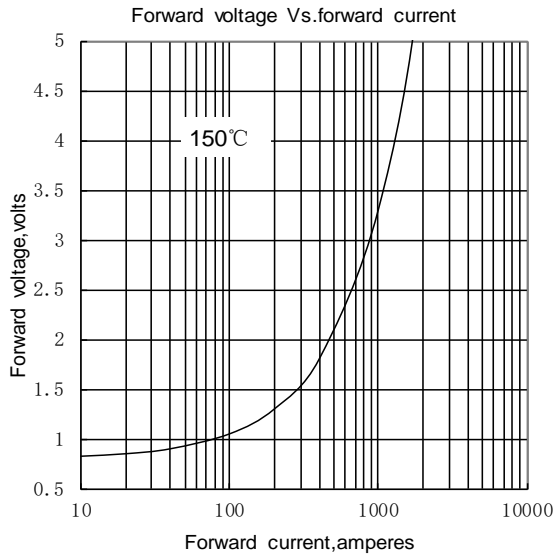


Fig.1

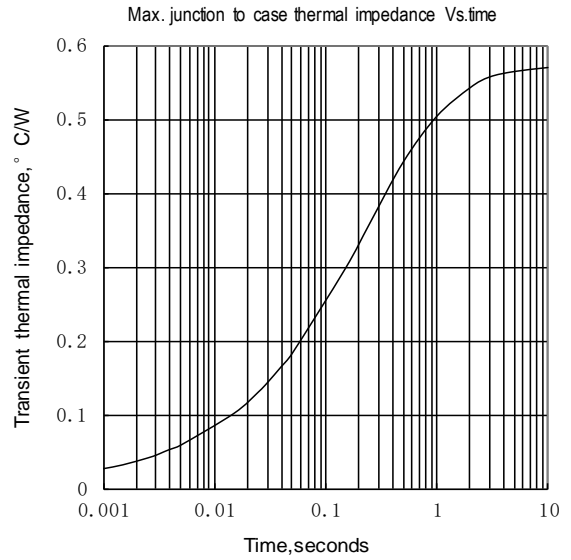


Fig.2

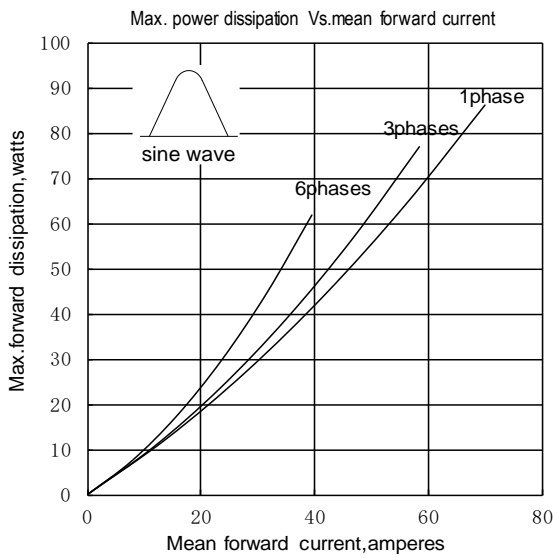


Fig.3

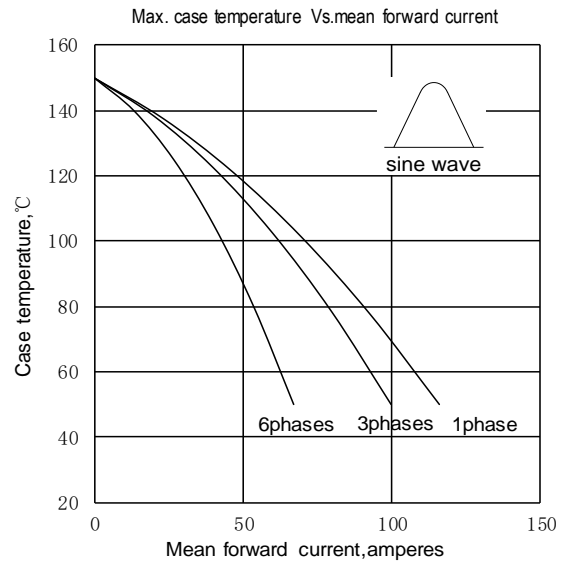


Fig.4

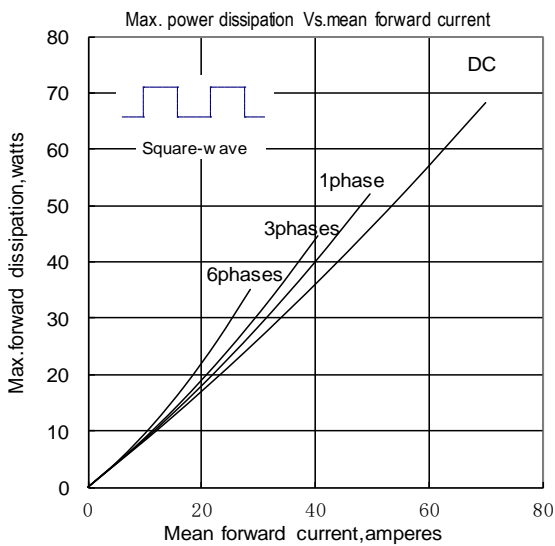


Fig.5

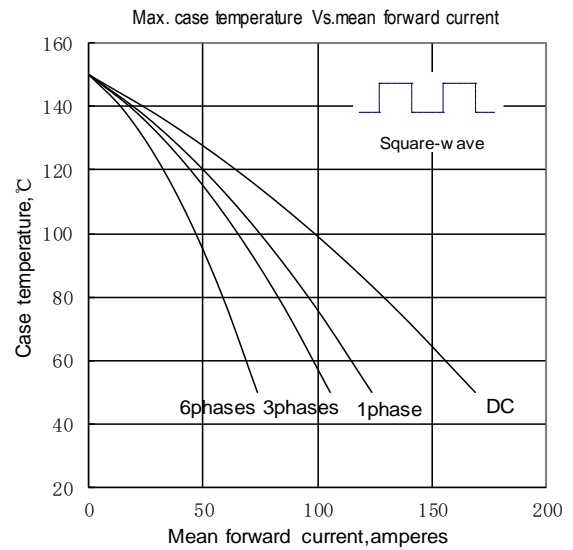


Fig.6

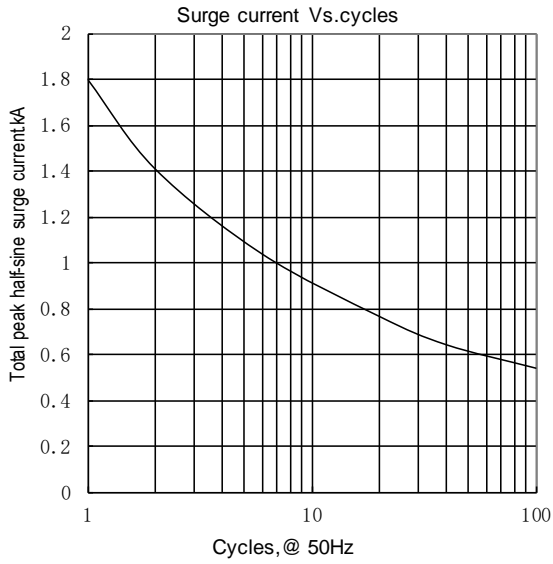
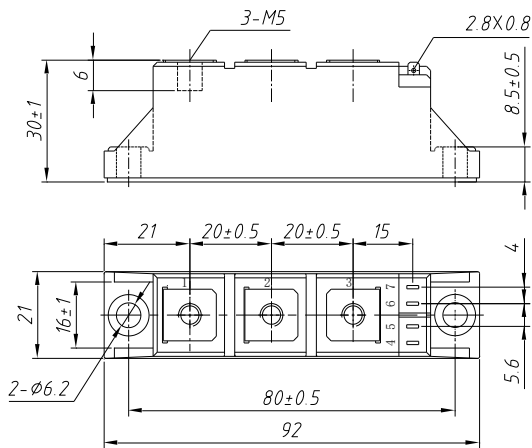
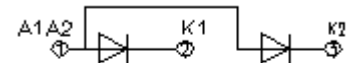


Fig.7



Unmarked dimensional tolerance : ±0.5mm

MR70D\*\*



MC70D\*\*

