



### Features:

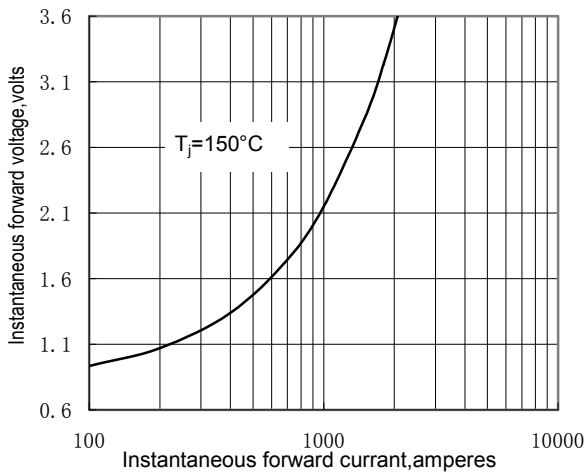
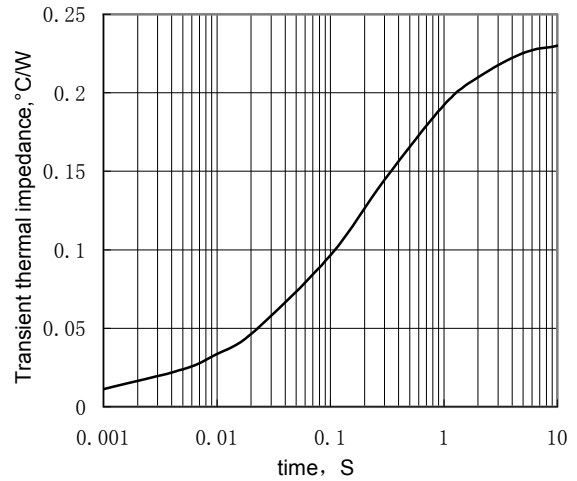
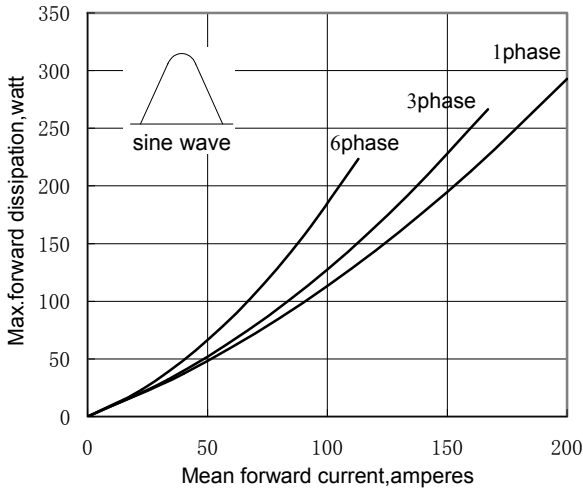
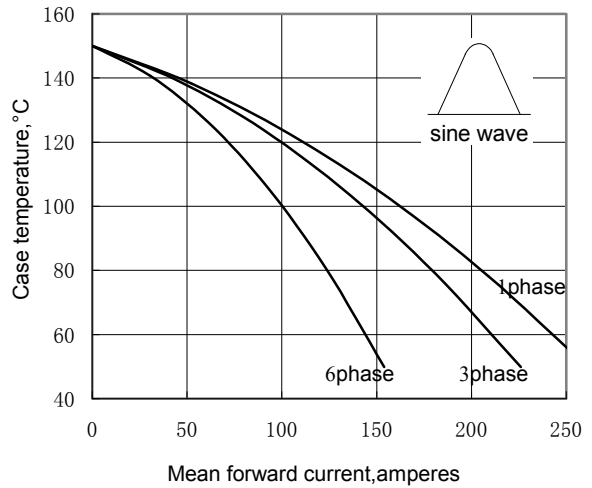
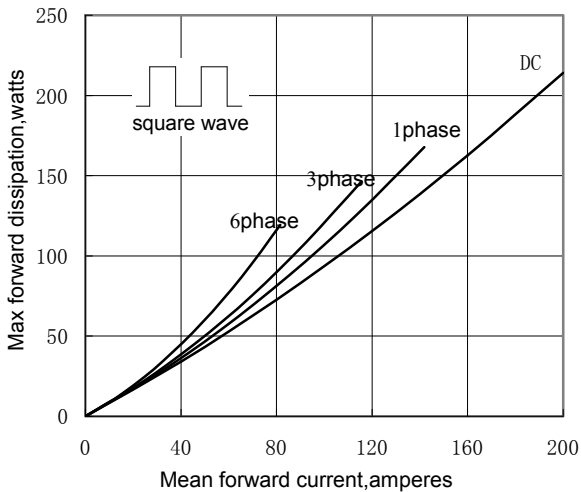
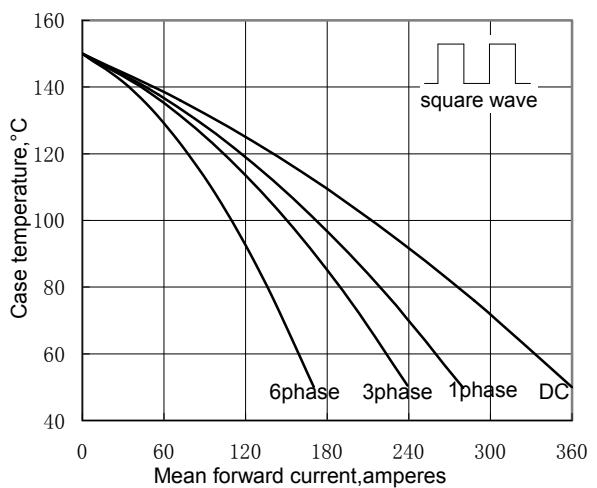
- High performance thermal insulation materials
- Good thermal fatigue performance
- International standard package

### Typical Applications

- Various rectifiers
- DC supply for PWM inverter

$V_{RSM}$	$V_{RRM}$	Type & Outline
900V	800V	MDx150-08
1100V	1000V	MDx150-10
1300V	1200V	MDx150-12
1500V	1400V	MDx150-14
1700V	1600V	MDx150-16
1900V	1800V	MDx150-18

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, $T_c=100^{\circ}C$	150			150	A
$I_{F(RMS)}$	RMS forward current		150			235	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			4.60	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				106	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$r_F$	Forward slop resistance					1.35	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=450A$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled per chip				0.230	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine: Single side cooled per chip				0.08	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}=1mA(max)$		2500			V
$F_m$	Terminal connection torque(M6)				6		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				165		g
Outline	M02H						

**Peak forward Voltage Vs. Peak forward Current**

**Fig.1**
**Max. junction To case Thermal Impedance Vs. Time**

**Fig.2**
**Max. Power Dissipation Vs. Mean forward Current**

**Fig.3**
**Max. case Temperature Vs. Mean forward Current**

**Fig.4**
**Max. Power Dissipation Vs. Mean forward Current**

**Fig.5**
**Max. case Temperature Vs. Mean forward Current**

**Fig.6**

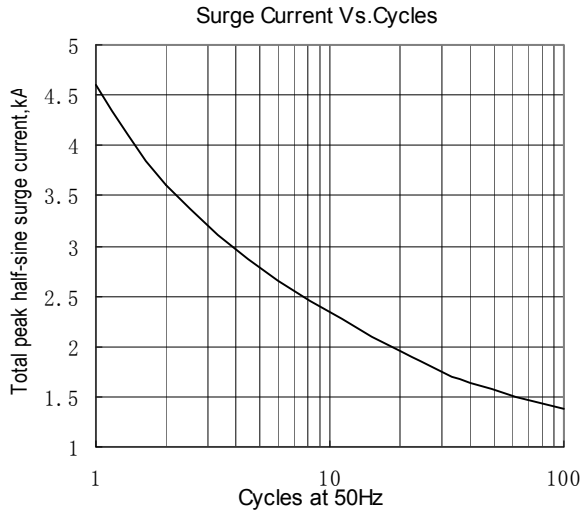


Fig.7

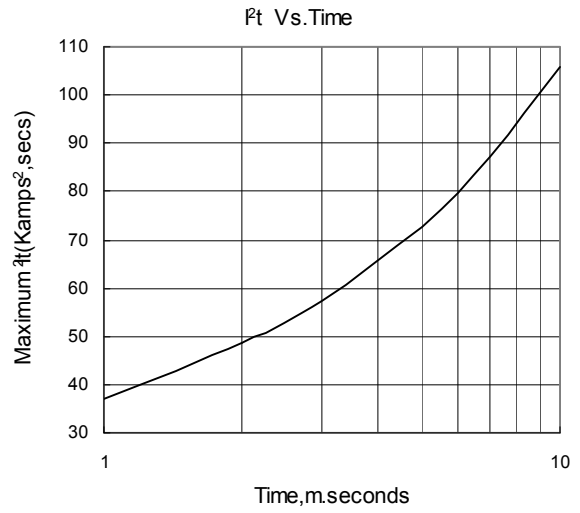
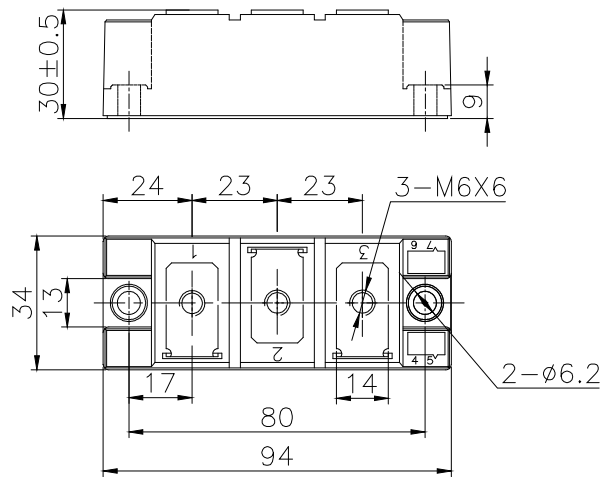
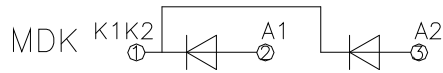
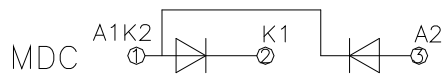


Fig.8

Outline:



M02H



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