

# MDG150 MDY150

## Diode Modules(Non-isolated type)

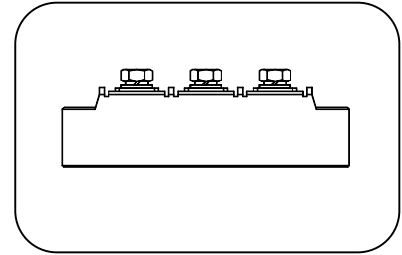
### Features:

- n Non-Isolated. Mounting base as common anode cathode terminal.
- n Pressure contact technology with Increased power cycling capability
- n Low forward voltage drop

### Typical Applications

- n Welding Power Supply
- n Various Dc power supplies.

$I_{F(AV)}$	<b>150 A</b>
$V_{RRM}$	<b>800~1800 V</b>
$I_{FSM}$	<b><math>5.8 A \times 10^3</math></b>
$I^2t$	<b><math>171.5 A^2 S \cdot 10^3</math></b>



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			236	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM} tp=10ms$ $V_{RSM}=V_{RRM}+200V$	150	800		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			12	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			5.8	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				171.5	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$r_F$	Forward slop resistance					1.53	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=450A$	25			1.57	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.240	$^{\circ}C /W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.1	$^{\circ}C /W$
$F_m$	Terminal connection torque(M6)				6		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				380		g
<b>Outline</b>	213F4						

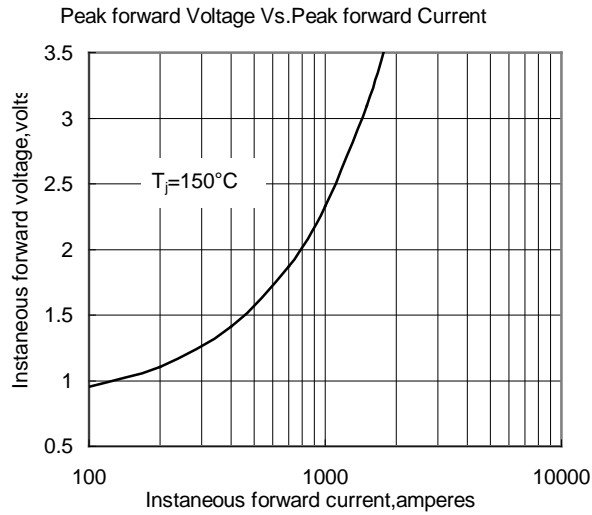


Fig.1

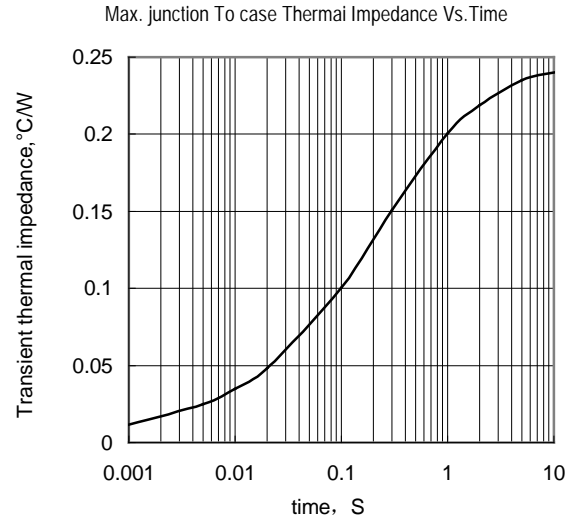


Fig.2

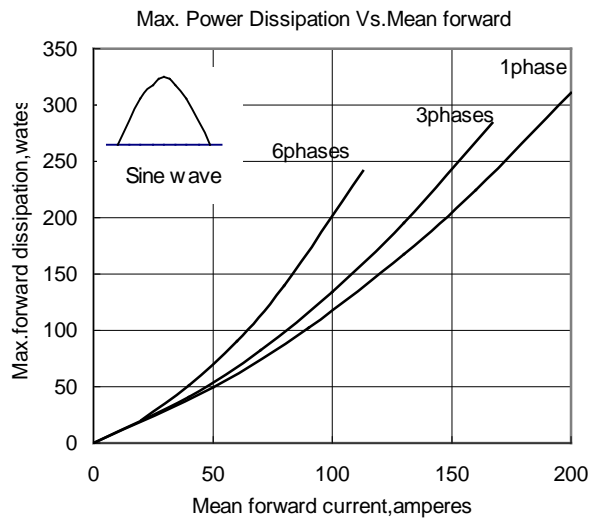


Fig.3

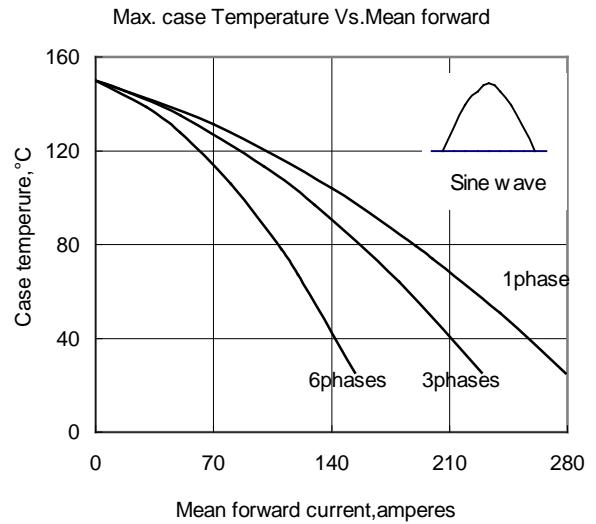


Fig.4

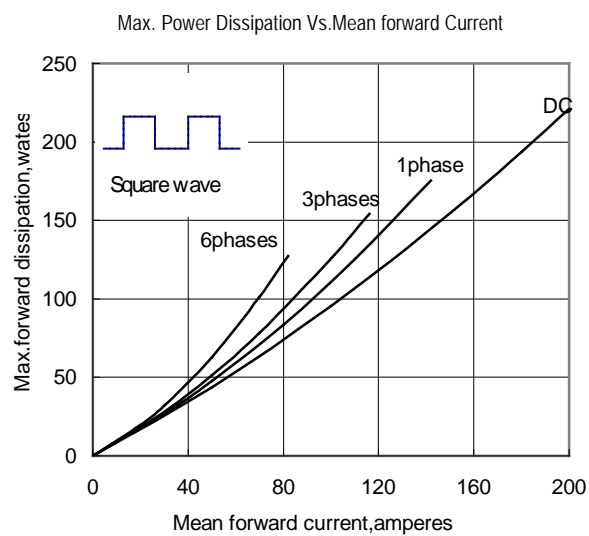


Fig.5

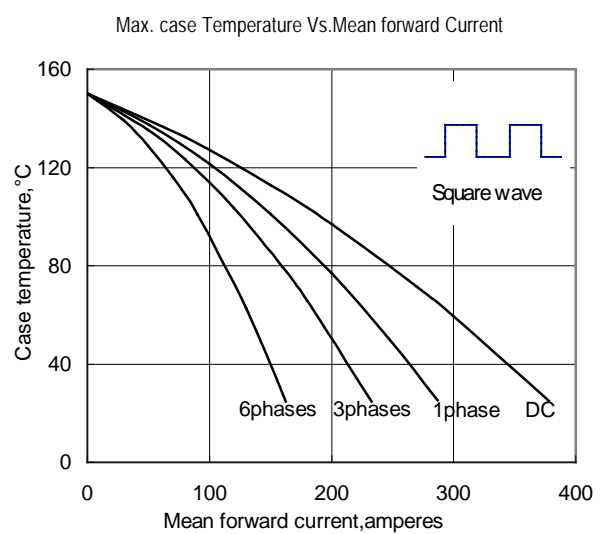
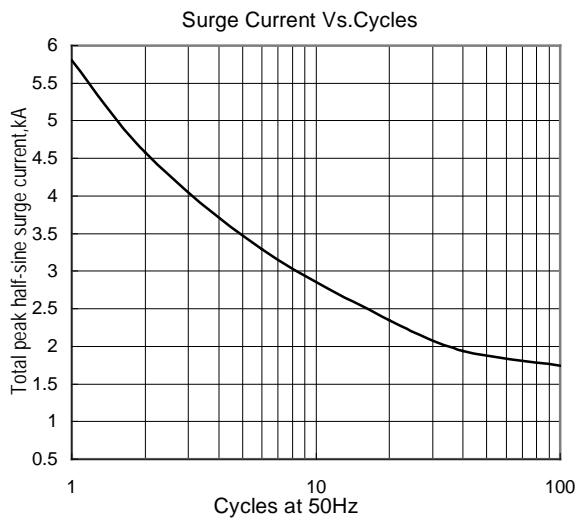
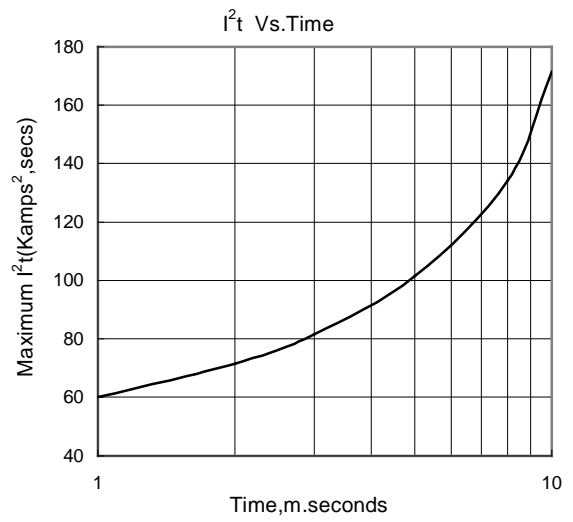


Fig.6



**Fig.7**



**Fig.8**

**Outline:**

