



# Diode Modules MDx160



$I_{F(AV)}$       **160A**  
 $V_{RRM}$         **2600~3600V**  
 $I_{FSM}$         **4.6 A·10<sup>3</sup>**  
 $I^2t$             **106A<sup>2</sup> S·10<sup>3</sup>**

### Features:

- Isolated mounting base 3600V~
- Pressure contact technology with  
Increased power cycling capability
- Space and weight savings

### Typical Applications

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

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>J</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>C</sub> =100°C	150			160	A
$I_{F(RMS)}$	RMS forward current		150			251	A
$V_{RRM}$	Repetitive peak reverse voltage	V <sub>RRM</sub> tp=10ms V <sub>RSM</sub> = V <sub>RRM</sub> +100V	150	2600		3600	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>	150			25	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			4.60	KA
$I^2t$	I <sup>2</sup> T for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					106
$V_{FO}$	Threshold voltage		150			0.95	V
$r_F$	Forward slop resistance						0.90
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =480A	25			1.98	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.230	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled				0.08	°C /W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, I <sub>iso</sub> :1mA(max)		3600			V
$F_m$	Terminal connection torque(M6)				6		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				320		g
<b>Outline</b>							

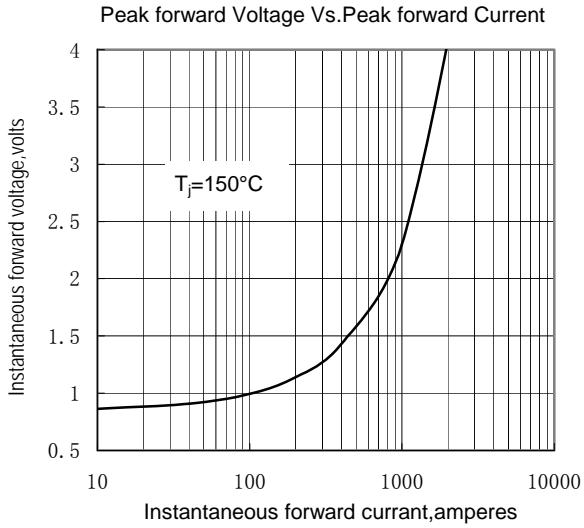


Fig.1

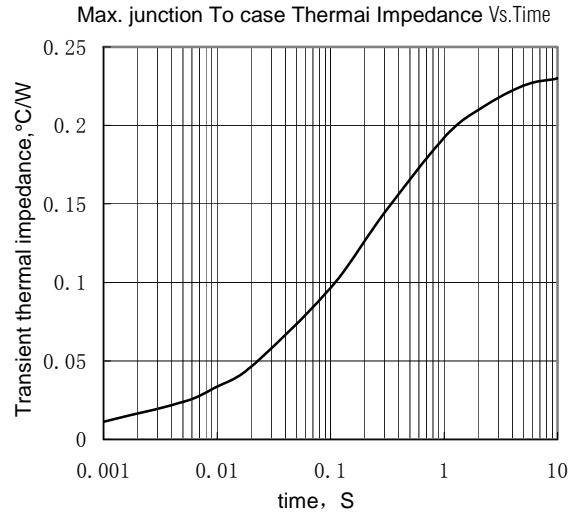


Fig.2

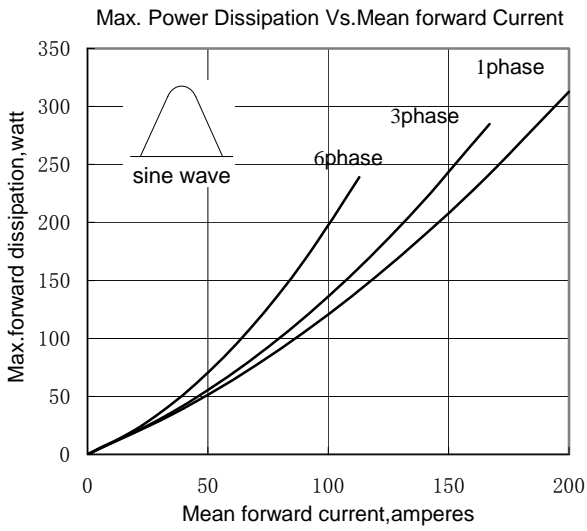


Fig.3

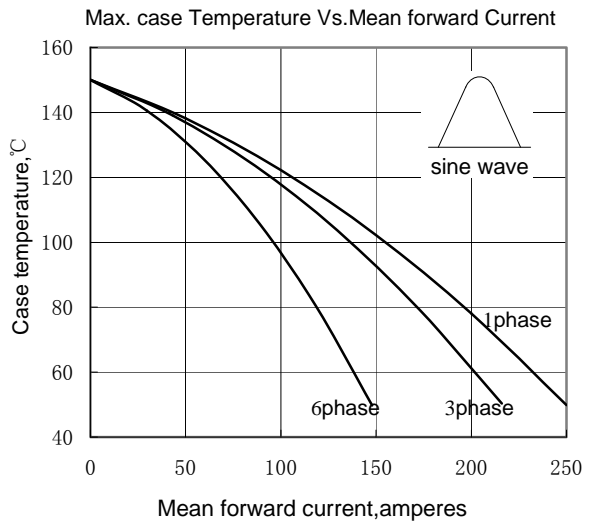


Fig.4

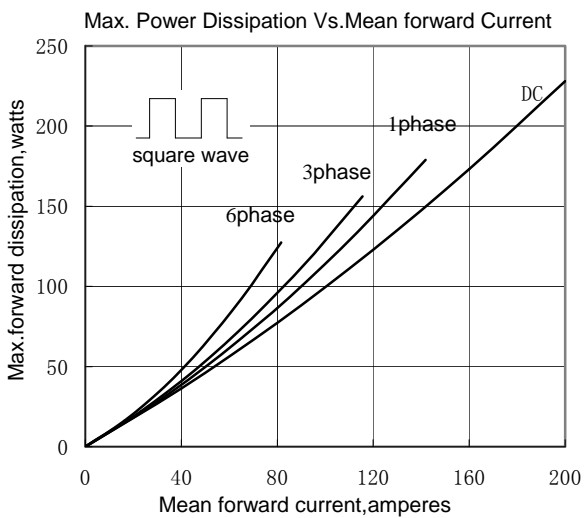


Fig.5

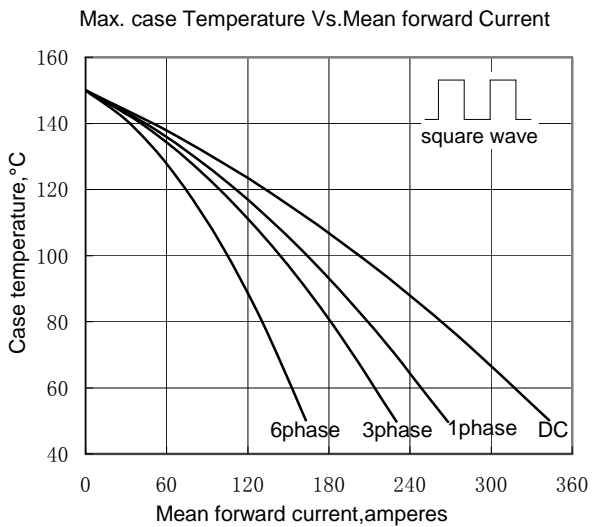


Fig.6

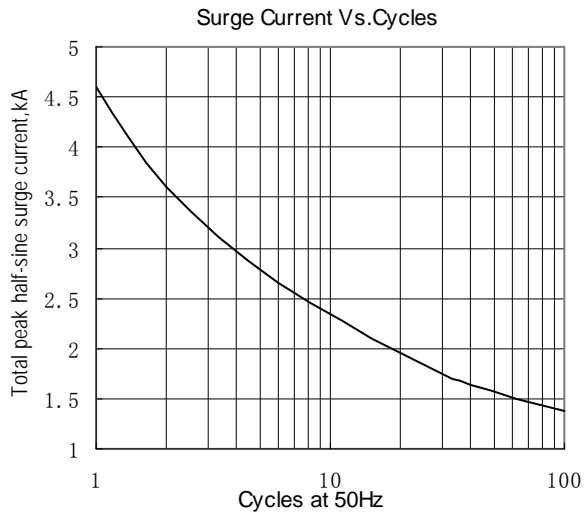


Fig.7

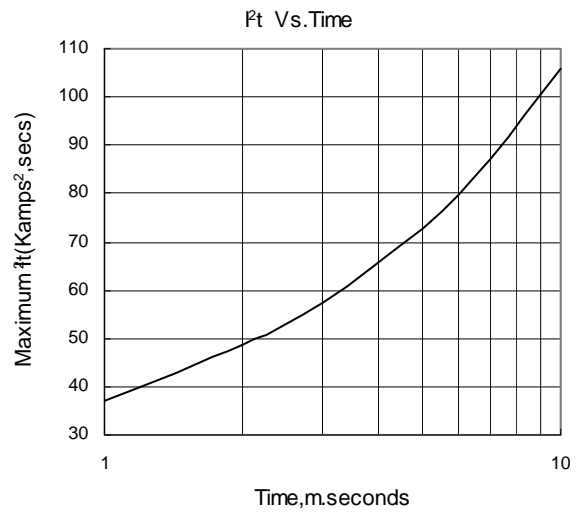


Fig.8

**Outline:**

