



AS ENERGI

# Diode Modules MDx570



**$I_{F(AV)}$**       **500A**  
 **$V_{RRM}$**       **600~1800V**  
 **$I_{FSM}$**        **$18A \times 10^3$**   
 **$I^2t$**        **$1620A^2 S \cdot 10^3$**

## Features:

- Isolated mounting base 2500V~
- 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	$T_j(^{\circ}C)$	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			500	A
$I_{F(RMS)}$	RMS forward current		150			785	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms $V_{RsM}=V_{RRM}+100V$	150	600		1800	V
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			18	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				1620	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slop resistance					0.30	$m\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=1500A$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.090	$^{\circ}C / W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled				0.024	$^{\circ}C / W$
$V_{iso}$	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M10)				12		N·m
	Mounting torque(M6)				6		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				1500		g
Outline							

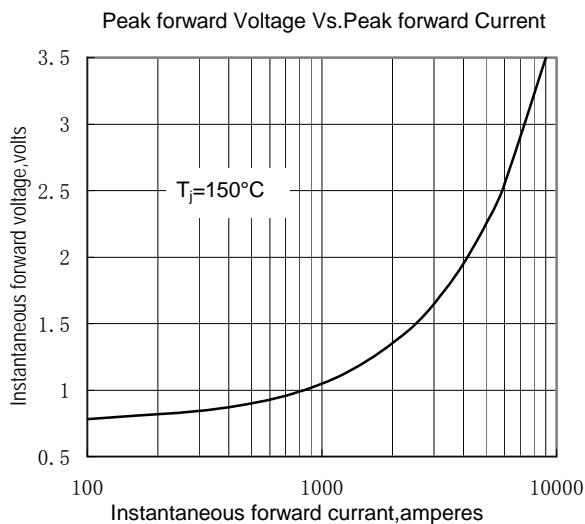


Fig.1

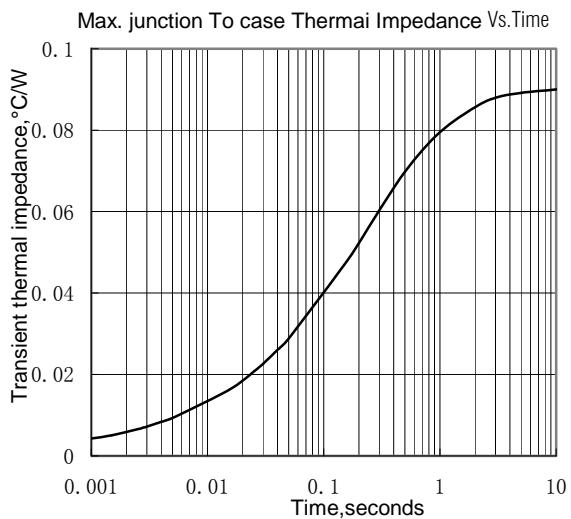


Fig.2

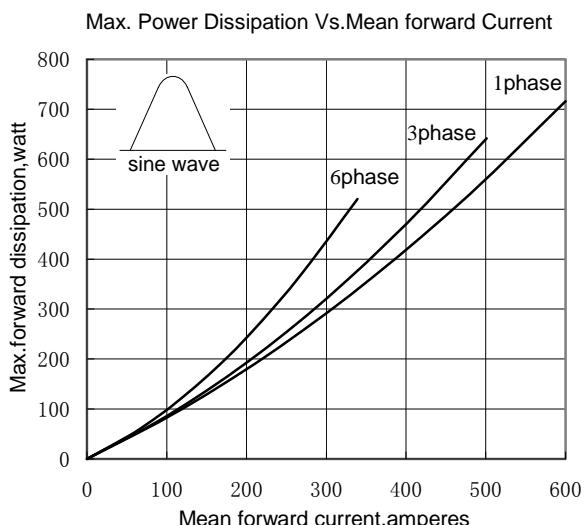


Fig.3

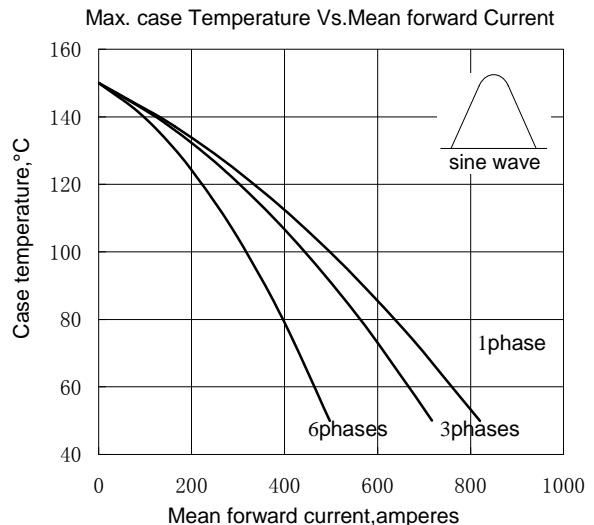


Fig.4

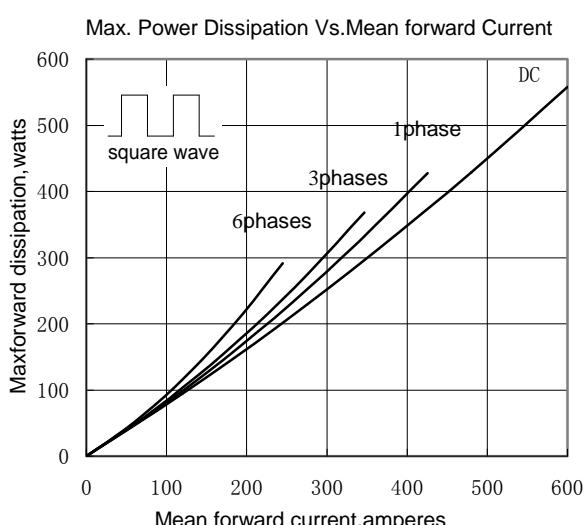


Fig.5

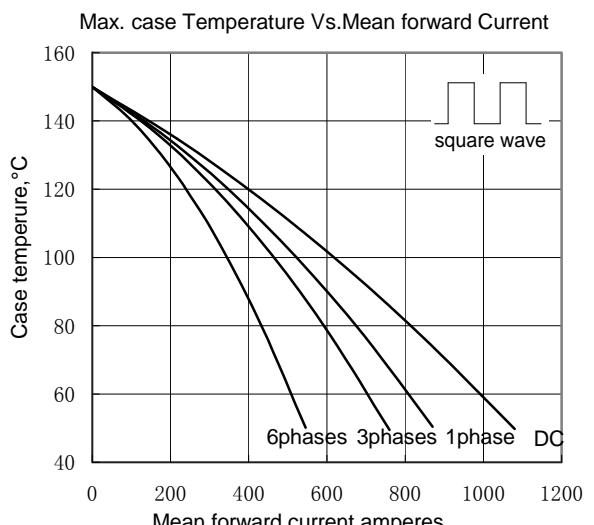


Fig.6

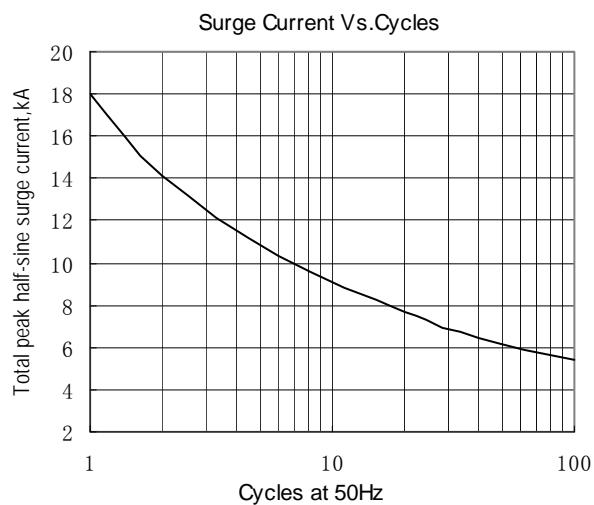


Fig.7

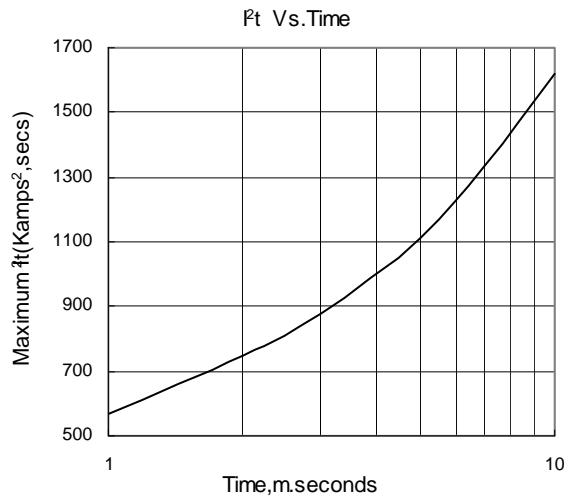


Fig.8

### Outline:

