



Diode Modules MDx600



$I_{F(AV)}$	600A
V_{RRM}	600~1800V
I_{FSM}	$19A \times 10^3$
I^2t	$1805A^2 S \cdot 10^3$

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	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side water cooled, $T_c=60^{\circ}\text{C}$	150			600	A
$I_{F(RMS)}$	RMS forward current		150			942	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} tp=10\text{ms}$ $V_{RsM}=V_{RRM}+100\text{V}$	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			19.0	KA
I^2t	I^2T for fusing coordination	$V_R=0.6V_{RRM}$				1805	$\text{A}^2\text{s} \cdot 10^3$
V_{FO}	Threshold voltage		150			0.75	V
r_F	Forward slop resistance					0.42	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=1800\text{A}$	25			1.70	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.110	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180° sine Single side cooled				0.04	$^{\circ}\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1\text{mA(max)}$		2500			V
F_m	Terminal connection torque(M10)				12		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}\text{C}$
W_t	Weight				1820		g
Outline							

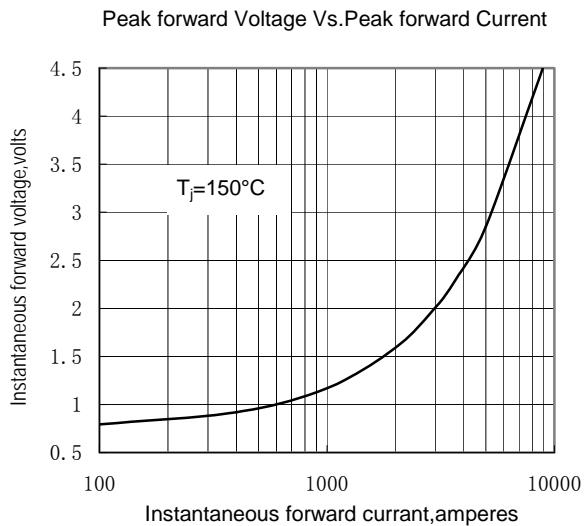


Fig.1

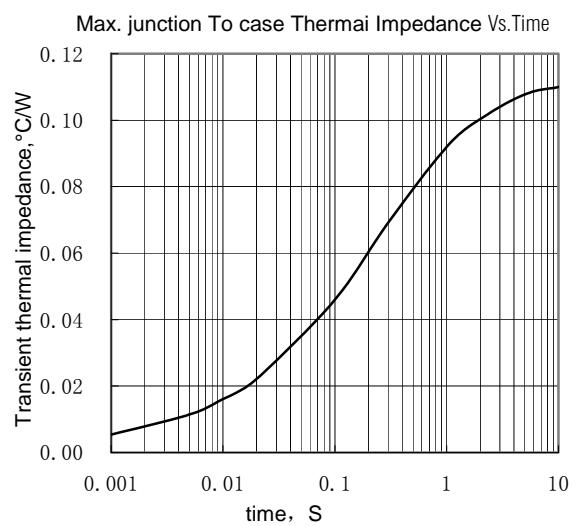


Fig.2

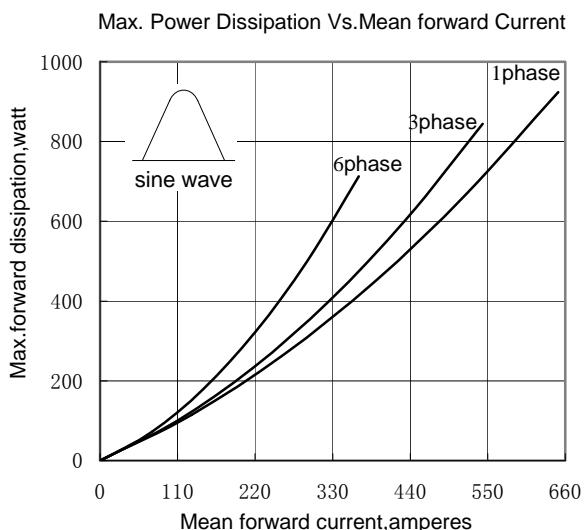


Fig.3

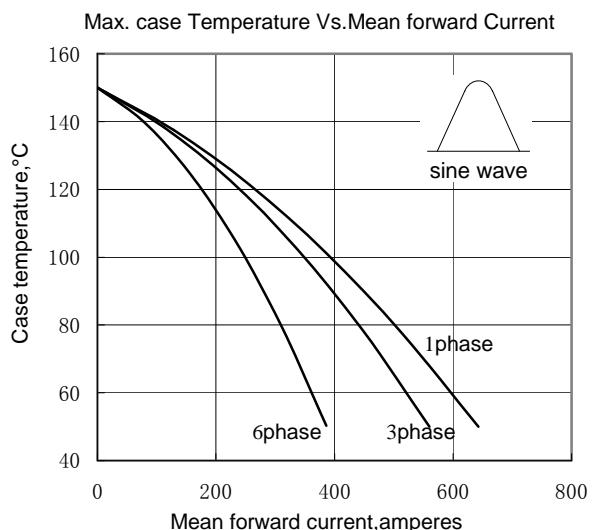


Fig.4

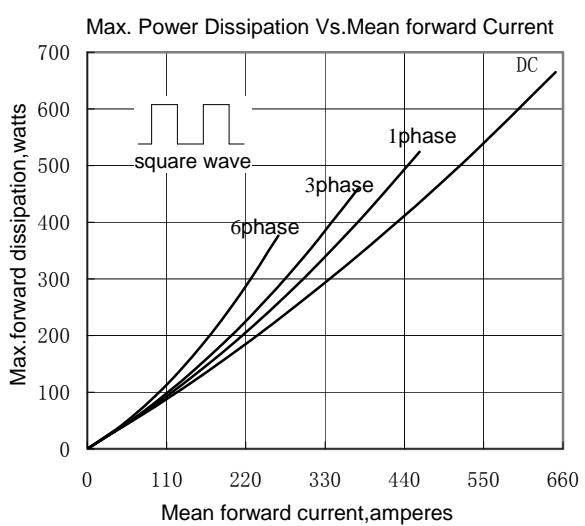


Fig.5

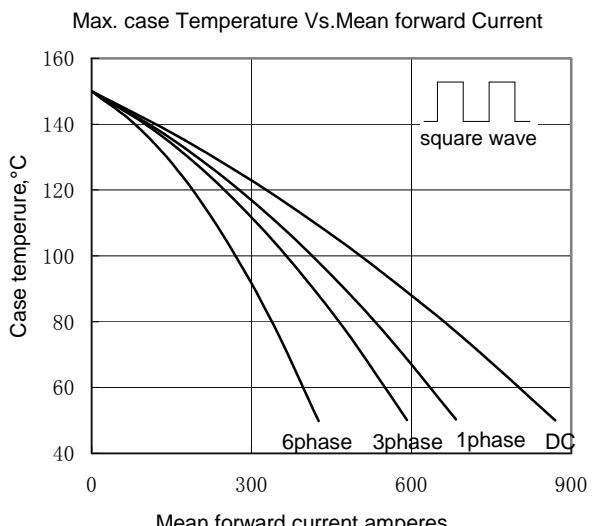


Fig.6

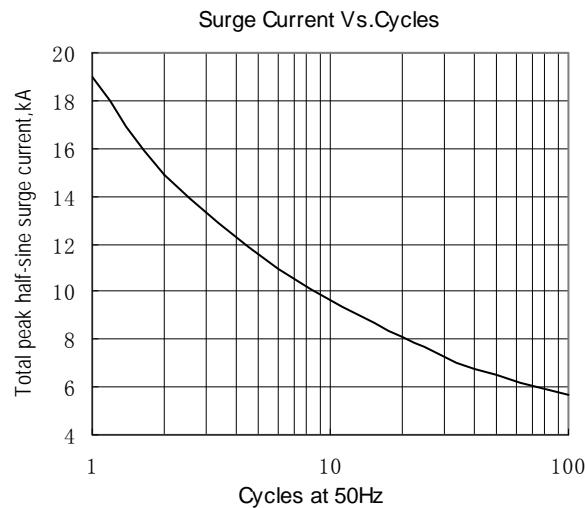


Fig.7

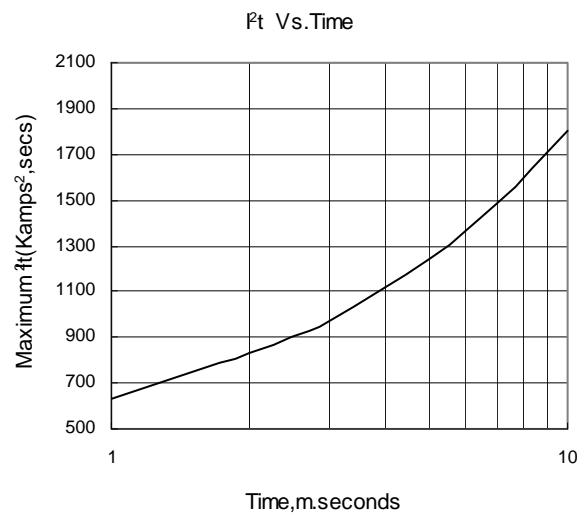


Fig.8

Outline:

