

# Модуль диодный МДД-1200-18



Средний прямой ток				$I_{FAV}$		1200 A			
Повторяющееся импульсное обратное напряжение				$U_{RRM}$		600 - 1800 В			
$U_{RRM}$ , В	600	700	800	900	1000	1200	1400	1600	1800
Класс по напряжению	6	7	8	9	10	12	14	16	18
$T_j$ , °C	- 60 ÷ 150								

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j$ (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=100^\circ\text{C}$	150			1200	A
$I_{F(RMS)}$	RMS forward current		150			1884	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			50	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			34	KA
$I^2t$	$I^2T$ for fusing coordination	$V_R=0.6V_{RRM}$				5780	$A^2s \cdot 10^{-3}$
$V_{FO}$	Threshold voltage		150			0.71	V
$r_F$	Forward slop resistance					0.11	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=3000A$	25			1.86	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.040	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180° sine Single side cooled				0.020	°C /W
$V_{iso}$	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1mA(max)$		2500			V
$F_m$	Terminal connection torque(M12)				14		N·m
	Mounting torque(M8)				12		N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				3800		g
Outline	MDT7A						

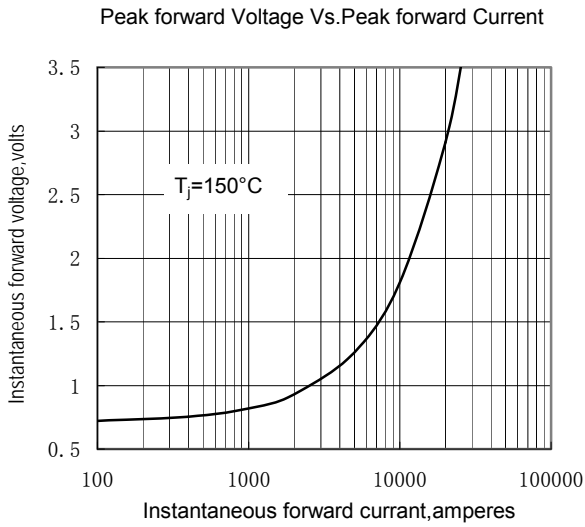


Fig.1

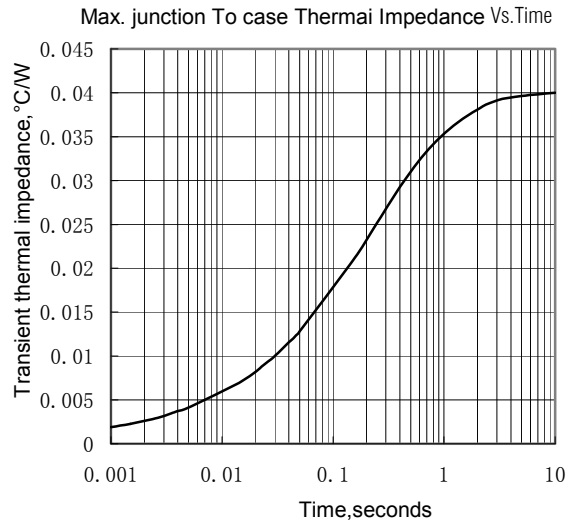


Fig.2

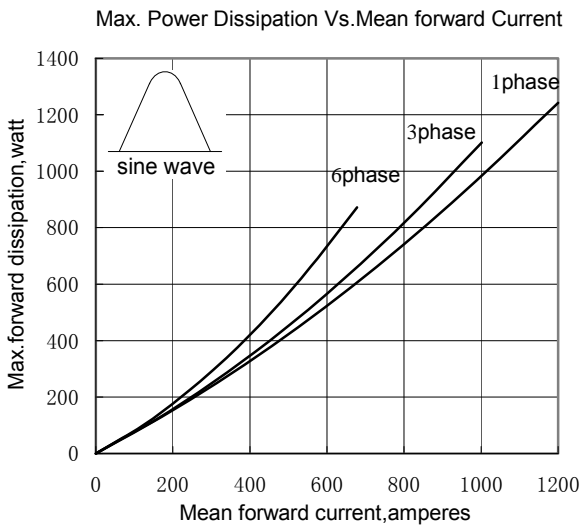


Fig.3

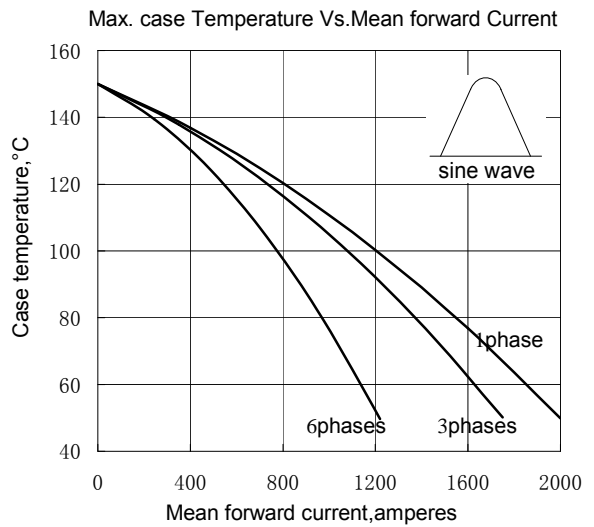


Fig.4

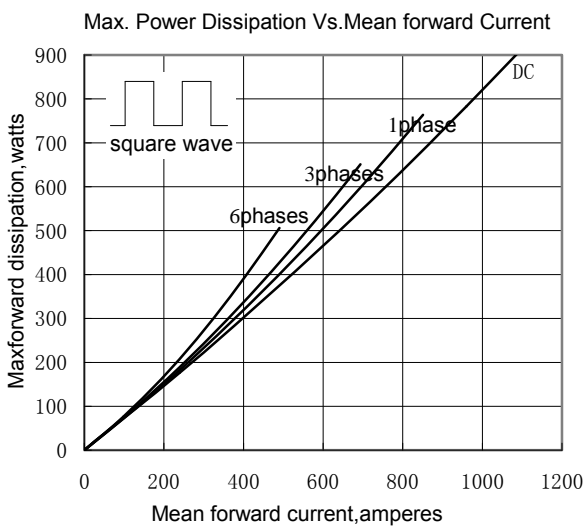


Fig.5

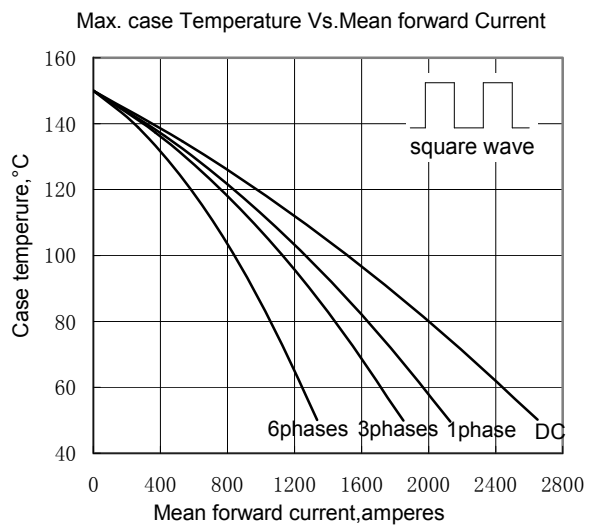


Fig.6

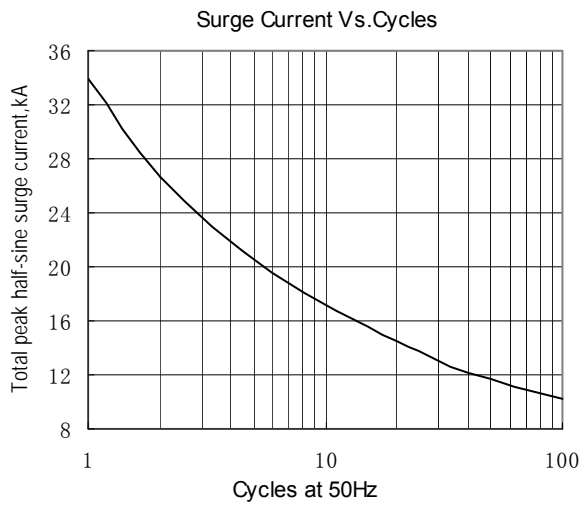


Fig.7

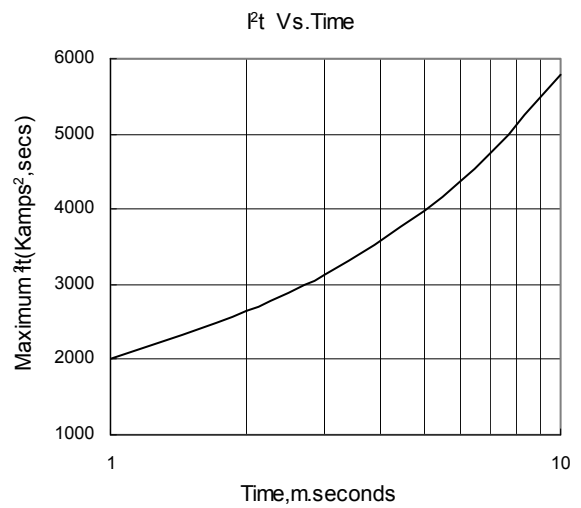
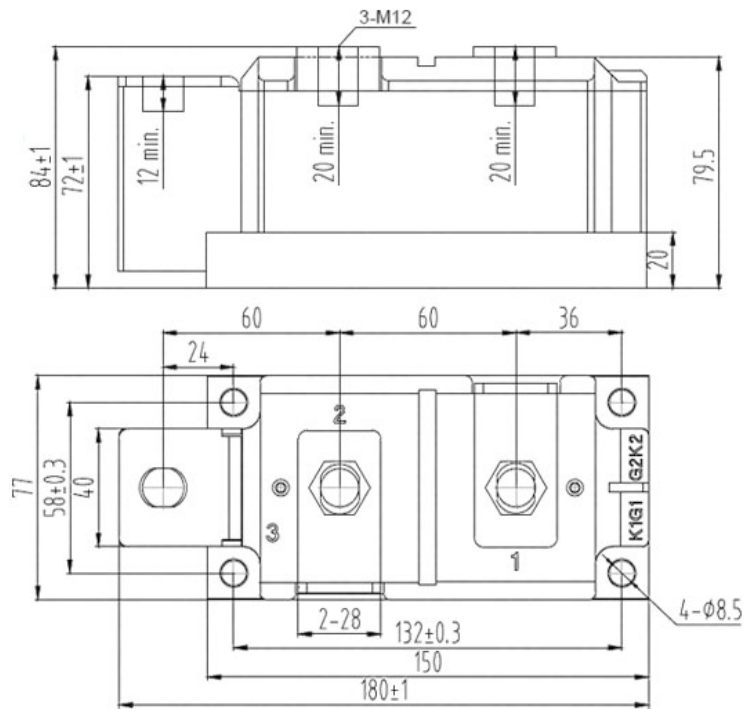


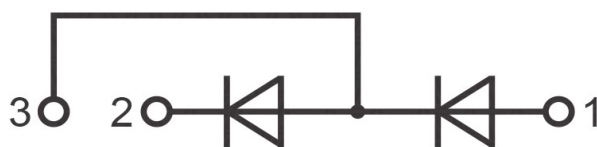
Fig.8

### ГАБАРИТНЫЕ РАЗМЕРЫ

Тип корпуса: MDT7A



Все размеры в миллиметрах



3 – Анод/Катод, 2 – Катод, 1 – Анод