

Модуль диодный МДД-1000-18



Средний прямой ток				I_{FAV}		1000 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			1000	A
$I_{F(RMS)}$	RMS forward current		150			1570	A
V_{RRM}	Repetitive peak reverse voltage	$V_{RRM} t_p=10\text{ms}$ $V_{RSM} = V_{RRM} + 100\text{V}$	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			28	KA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				3920	$\text{A}^2\text{s} \cdot 10^3$
V_{FO}	Threshold voltage		150			0.71	V
r_F	Forward slop resistance					0.10	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=3000\text{A}$	25			1.82	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.052	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled				0.020	°C /W
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA}(\text{max})$		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						

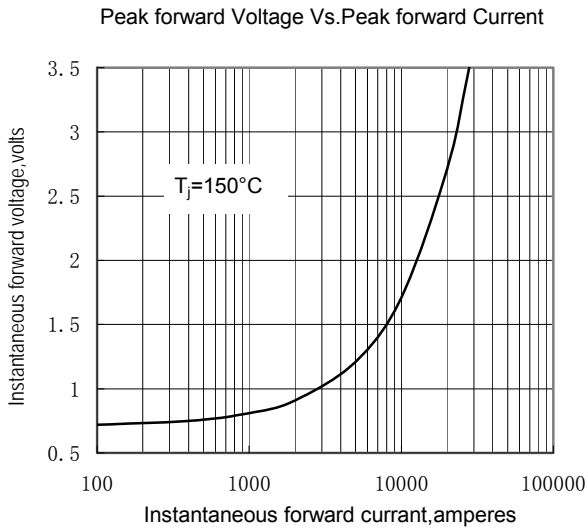


Fig.1

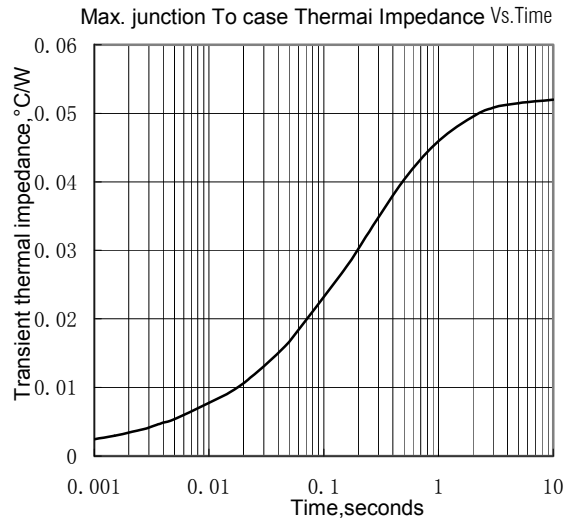


Fig.2

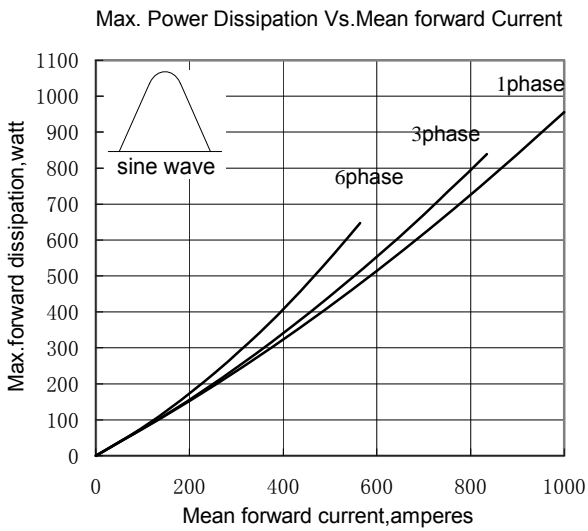


Fig.3

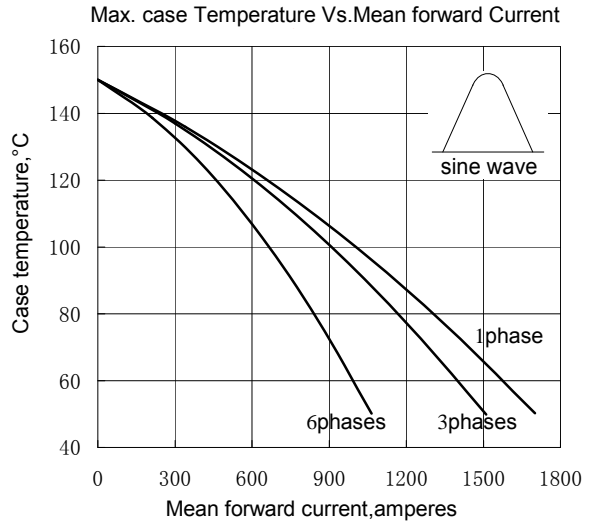


Fig.4

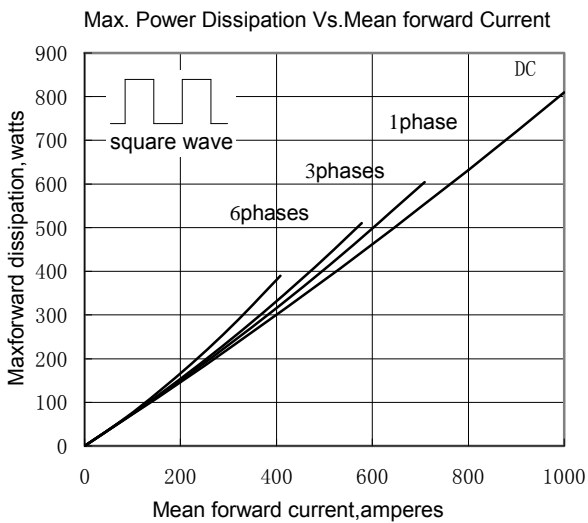


Fig.5

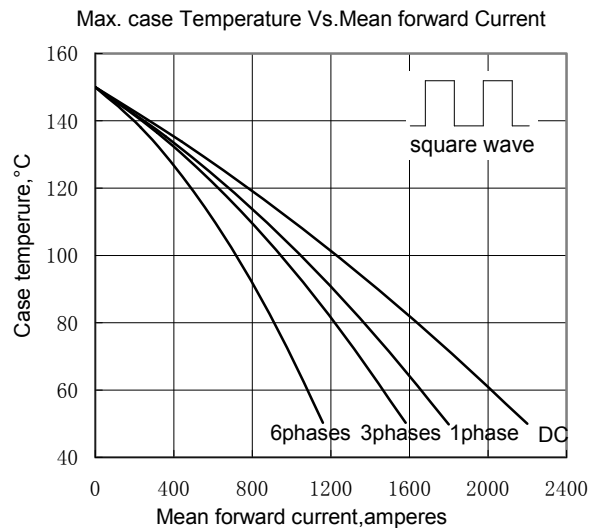


Fig.6

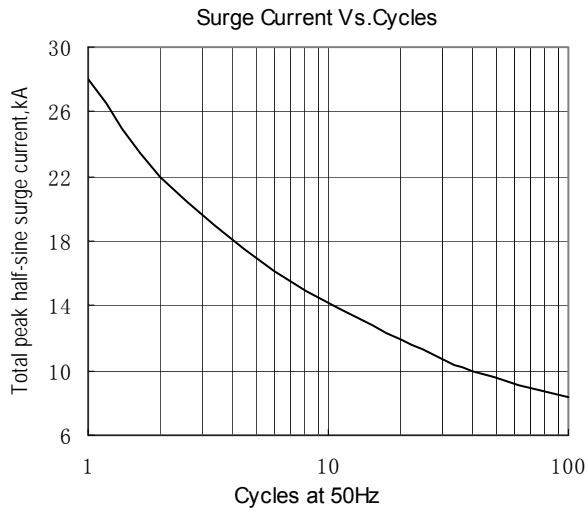


Fig.7

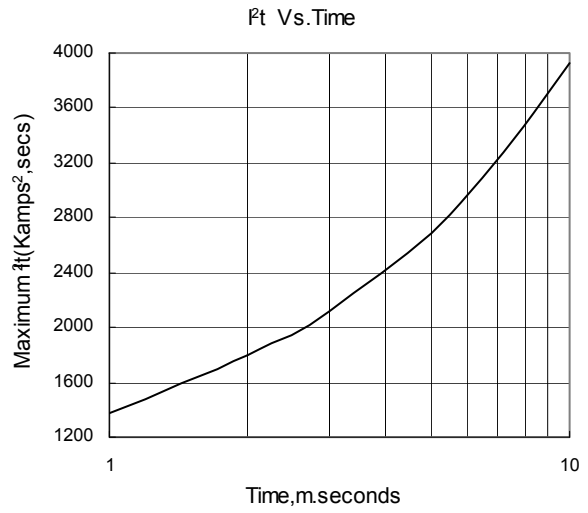
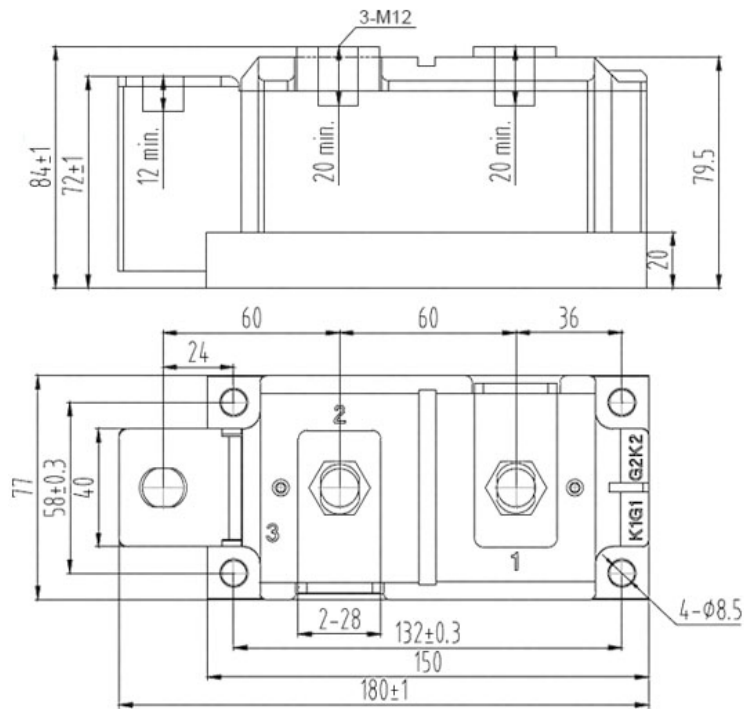


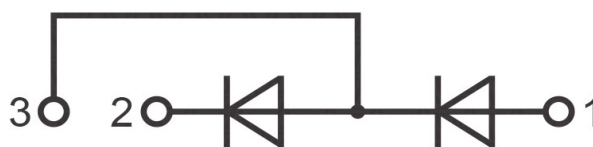
Fig.8

ГАБАРИТНЫЕ РАЗМЕРЫ

Тип корпуса: MDT7A



Все размеры в миллиметрах



3 – Анод/Катод, 2 – Катод, 1 – Анод