

**Features:**

- Isolated mounting base 3000V~
- Solder joint technology with increased power cycling capability
- Space and weight saving

Typical Applications:

- Various rectifiers
- DC supply for PWM inverter

V _{RRM}	Type & Outline		
	600V	800V	1000V
1200V	MDC160-12-229H3	MDC160-14-229H3	MDC160-16-229H3
1400V			MDC160-18-229H3
1600V			
1800V			

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°C	150			160	A
I _{F(RMS)}	RMS forward current					251	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			12	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			4	kA
I ² t	I ² t for fusing coordination					80	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.85	V
r _F	Forward slope resistance					1.25	mΩ
V _{FM}	Peak forward voltage	I _{FM} =480A	25			1.50	V
R _{th(j-c)}	Thermal resistance Junction to case	Single side cooled per chip				0.20	°C /W
R _{th(c-h)}	Thermal resistance case to heatsink	Single side cooled per chip				0.08	°C /W
V _{iso}	Isolation voltage	50Hz,R.M.S,t=1min, I _{iso} :1mA(max)		3000			V
F _m	Terminal connection torque(M6)			4.5		6	N·m
	Mounting torque(M6)			4.5		6	N·m
T _{vj}	Junction temperature			-40		150	°C
T _{stg}	Stored temperature			-40		125	°C
W _t	Weight				165		g
Outline		229H3					

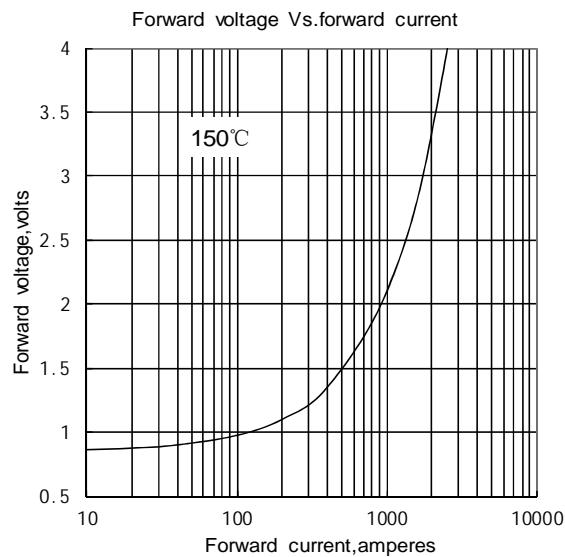


Fig1

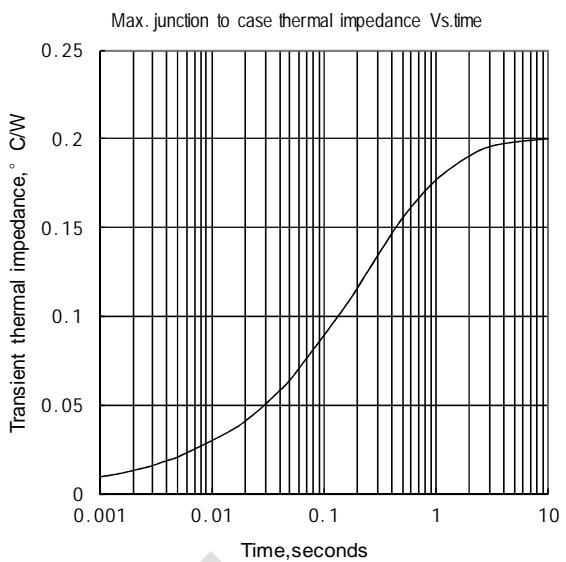


Fig2

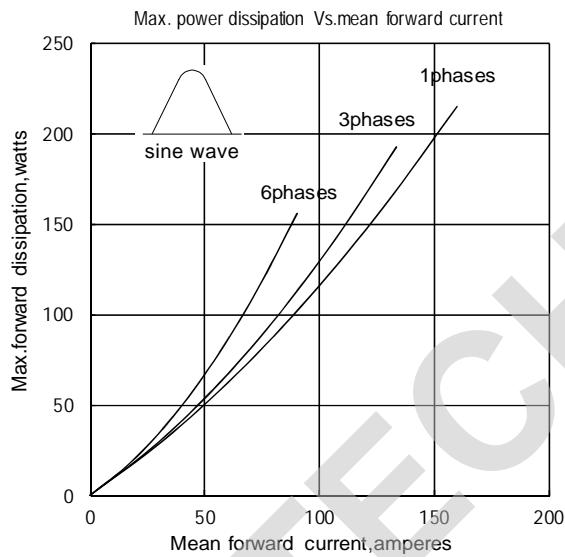


Fig3

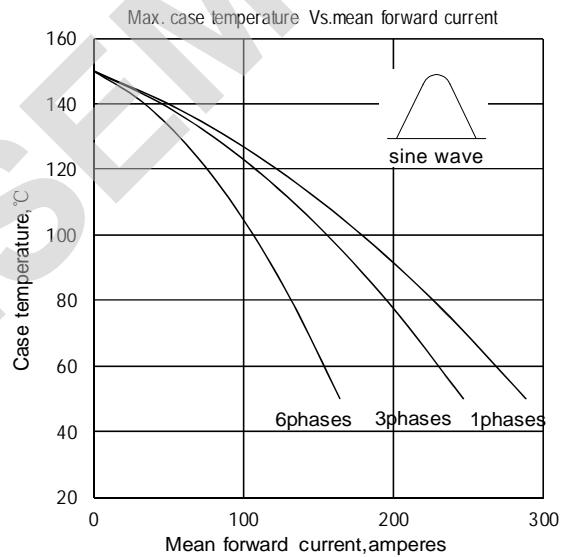


Fig4

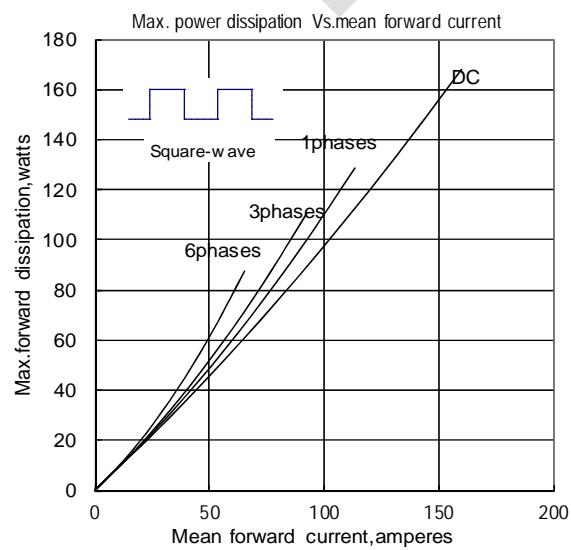


Fig5

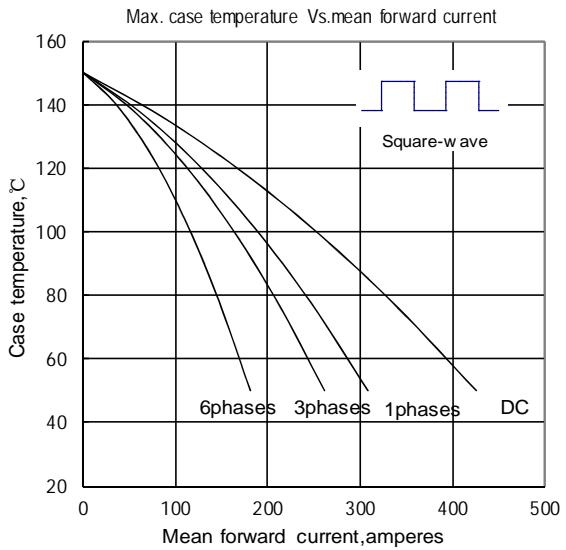


Fig6

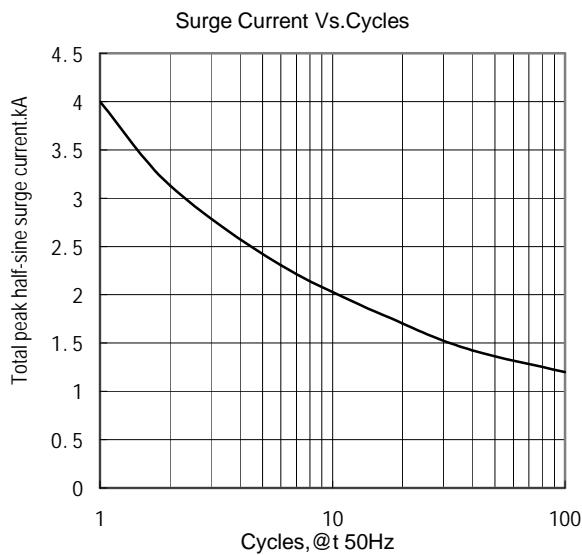


Fig7

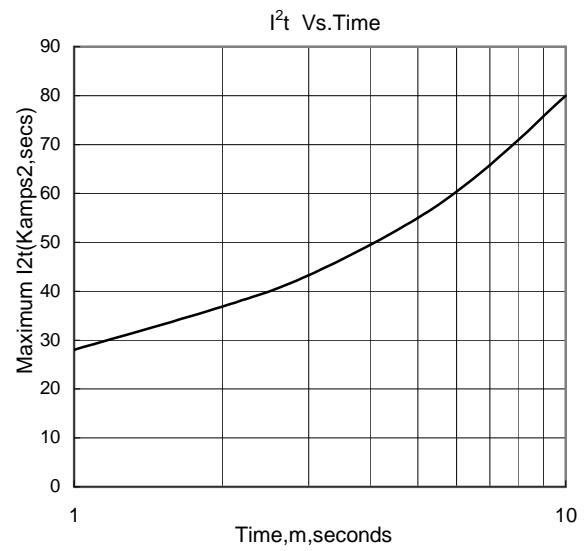
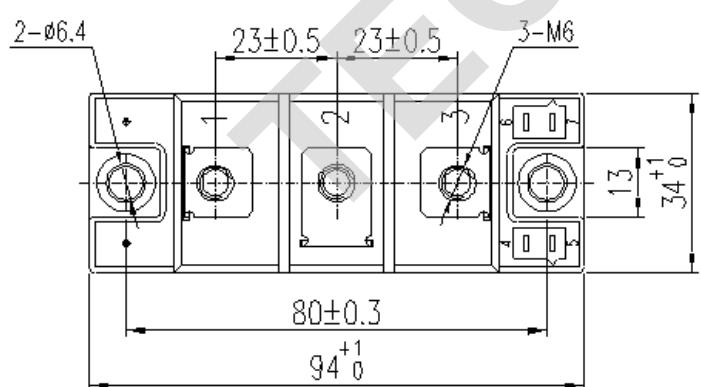
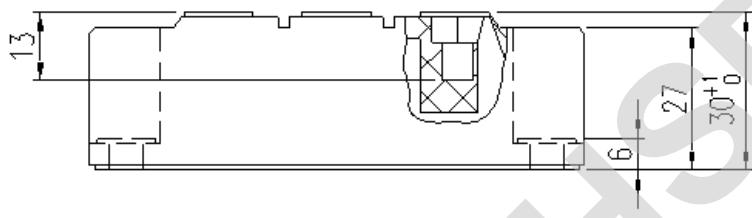
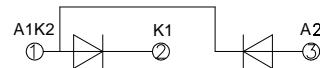


Fig8

Outline:

MDC

Unmarked dimensional tolerance: $\pm 0.5\text{mm}$