

Features:

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

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

V _{RSM}	V _{RRM}	Type & Outline
2100V	2000V	MDx400-20-415F3
2300V	2200V	MDx400-22-415F3
2600V	2500V	MDx400-25-415F3

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			400	A
I _{F(RMS)}	RMS forward current		150			628	A
I _{RRM}	Repetitive peak current	at V _{RRM}	150			30	mA
I _{FSM}	Surge forward current	10ms half sine wave V _R =0.6V _{RRM}	150			13.0	kA
I ² t	I ² t for fusing coordination					845	A ² s*10 ³
V _{FO}	Threshold voltage		150			0.85	V
r _F	Forward slope resistance					0.49	mΩ
V _{FM}	Peak forward voltage	I _{FM} =1200A	25			1.55	V
R _{th(j-c)}	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.09	°C/W
R _{th(c-h)}	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.04	°C/W
V _{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I _{iso} :1mA(max)			3000		V
F _m	Terminal connection torque(M10)					12.0	N·m
	Mounting torque(M6)					6.0	N·m
T _{stg}	Stored temperature				-40	125	°C
W _t	Weight					1275	g
Outline	415F3						

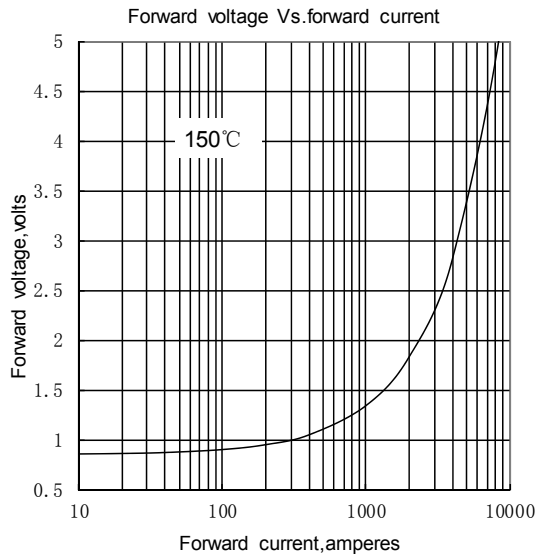


Fig.1

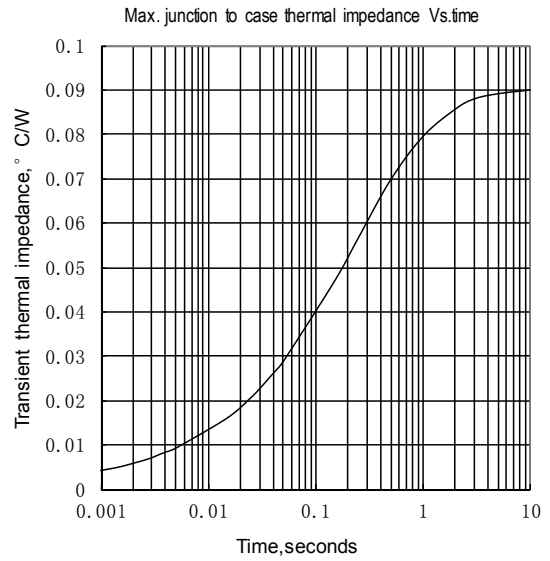


Fig.2

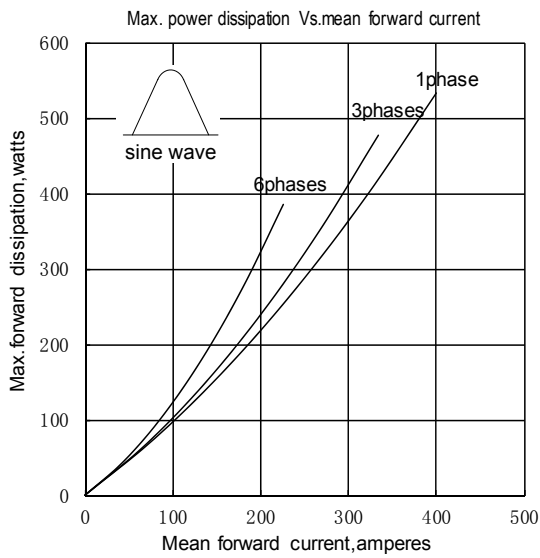


Fig.3

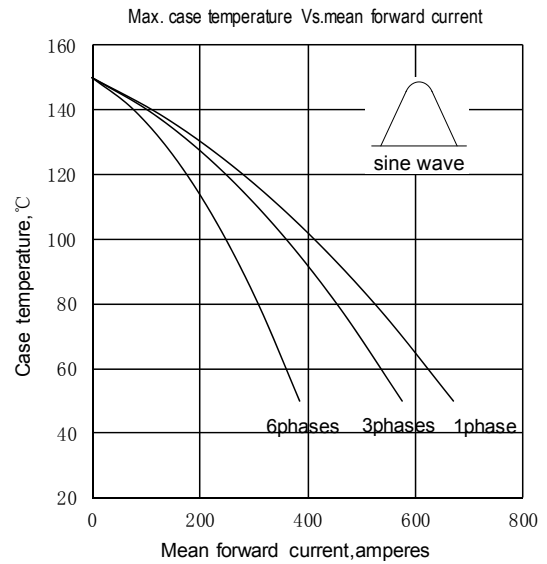


Fig.4

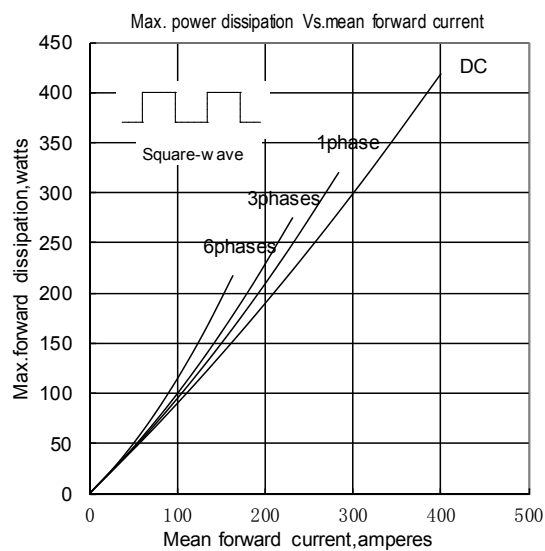


Fig.5

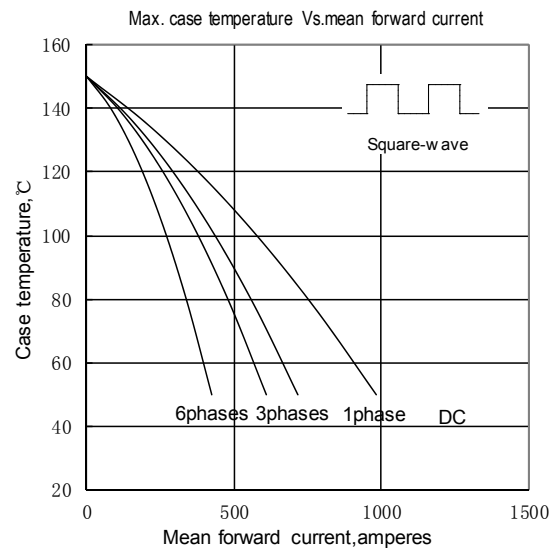


Fig.6

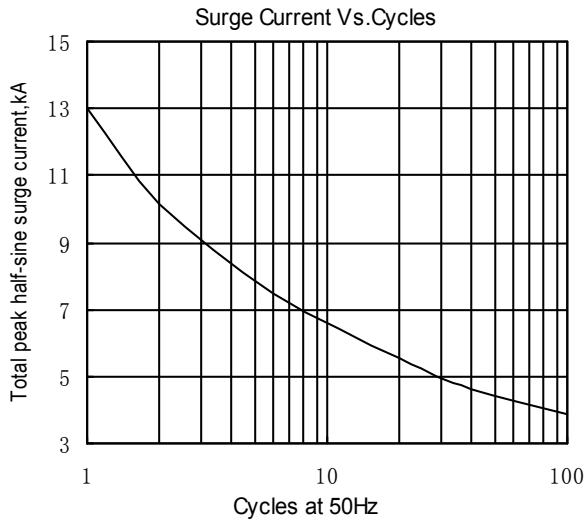


Fig.7

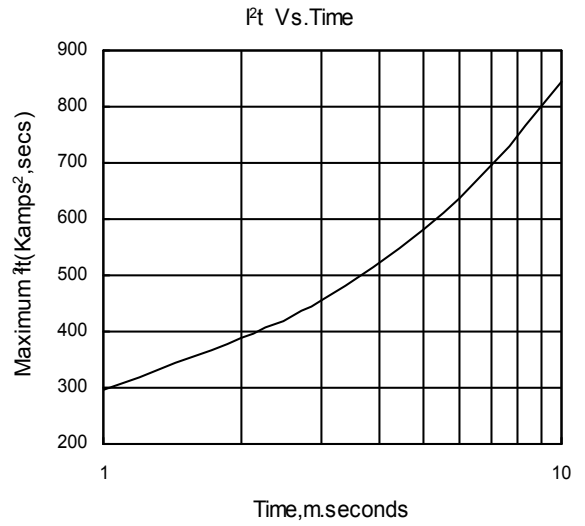


Fig.8

Outline:

