



$I_{F(AV)}$ **40A**
 V_{RRM} **600~1800V**
 I_{FSM} **$1.0 A \times 10^3$**
 I^2t **$5.0A^2 S \cdot 10^3$**

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 (°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			40	A
$I_{F(RMS)}$	RMS forward current		150			63	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			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.00	KA
I^2t	I ² T for fusing coordination	V _R =0.6V _{RRM}					5.0
V_{FO}	Threshold voltage		150			0.80	V
r_F	Forward slop resistance						5.57
V_{FM}	Peak forward voltage	I _{FM} =120A	25			1.55	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled				0.900	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine: Single side cooled				0.2	°C /W
V_{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I _{iso} :1mA(max)		2500			V
F_m	Terminal connection torque(M5)				4		N·m
	Mounting torque(M6)				6		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				175		g
Outline							

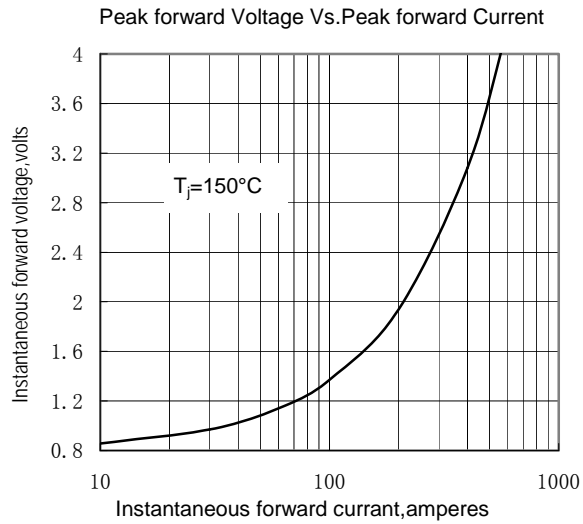


Fig.1

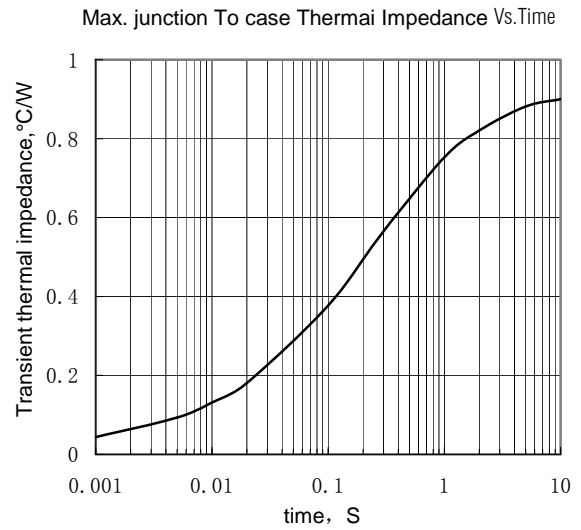


Fig.2

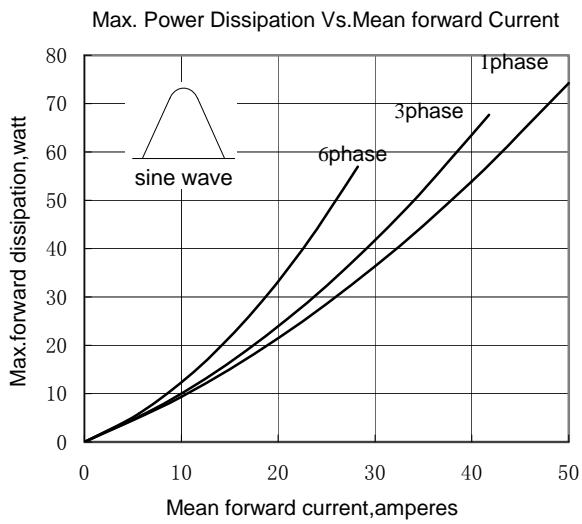


Fig.3

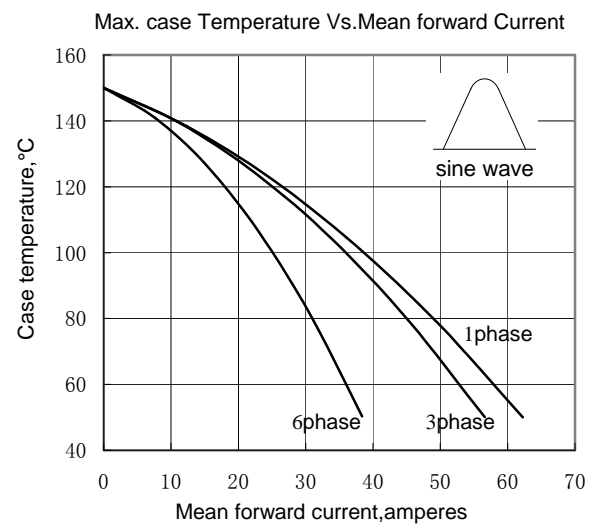


Fig.4

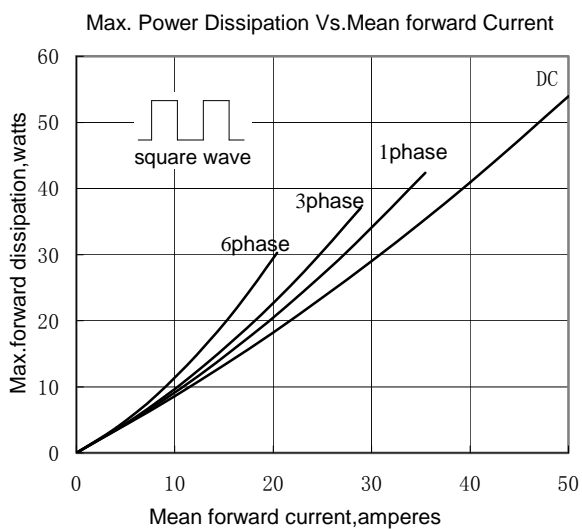


Fig.5

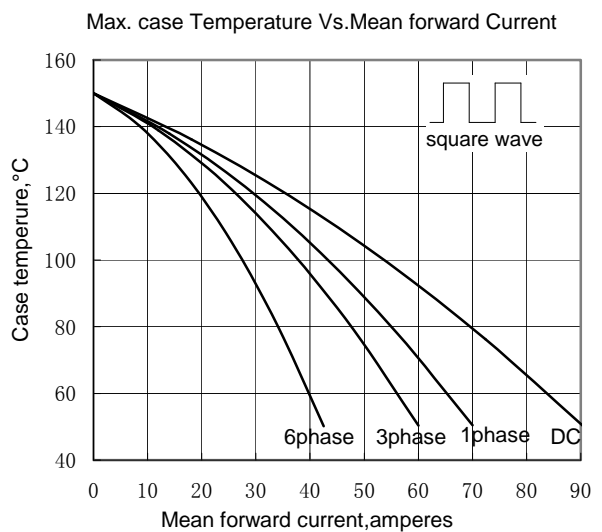


Fig.6

Surge Current Vs.Cycles

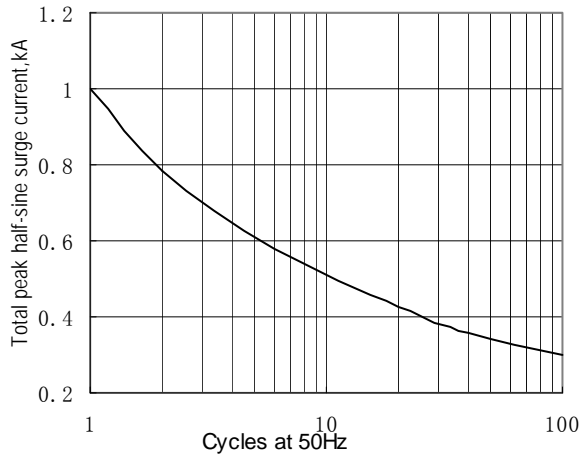


Fig.7

I²t Vs.Time

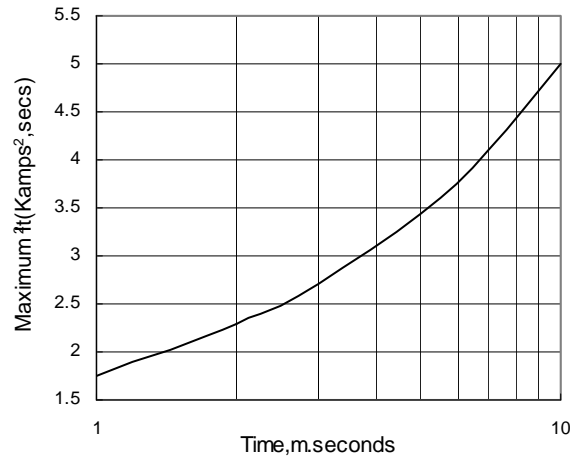


Fig.8

Outline:

