

FEATURES

- 1). Low forward voltage drop
- 2). High reverse voltage
- 3). Hermetic metal cases with ceramic insulators

TYPICAL APPLICATIONS

- 1). All purpose high power rectifier diodes
- 2). High power resistance welding equipment
- 3). Non-controllable and half-controllable rectifiers
- 4). Controlled rectifiers

$I_{F(AV)}$	627 A
V_{RRM}	1100~2000 V
I_{FSM}	5 KA
I^2t	$125 \cdot 10^3 A^2S$



THE MAIN PARAMETERS

SYMBOL		TEST CONDITIONS	$T_J(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, $T_{hs}=55^{\circ}C$ $T_{hs}=153^{\circ}C$	175			627 200	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms, $V_{RSM}=V_{RRM}+100V$	175	1100		2000	V
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	175			16	mA
I_{FSM}	Surge on-state current	10ms half sine wave, $V_R=0.6V_{RRM}$	175			5	KA
I^2t	I^2T for fusing coordination					125	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		175			0.8	V
r_F	Forward slop resistance					0.86	mΩ
V_{FM}	Peak on-state voltage	$I_{TM}=1500A, F=5KN$	175			2.10	V
I_{rm}	Reverse recovery current	$I_{TM}=600A, tp=1000 \mu s, di/dt=-20A/\mu s, V_R=50V$	175			75	A
t_{rr}	Reverse recovery time					4.0	μs
Q_{rr}	Recovery charge					160	μC
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 5.0KN				0.090	°C /W
F_m	Mounting force			3.3		5.5	KN
T_{stg}	Stored temperature			-40		190	°C
W_t	Weight				50		g
Size	Package box size					95 × 95 × 50	mm

PERFORMANCE CURVES FIGURE

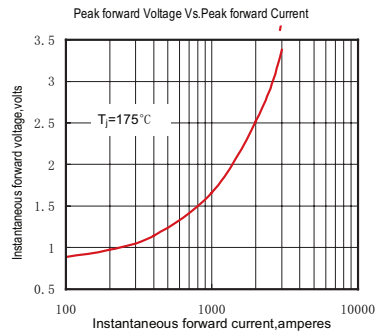


Fig.1

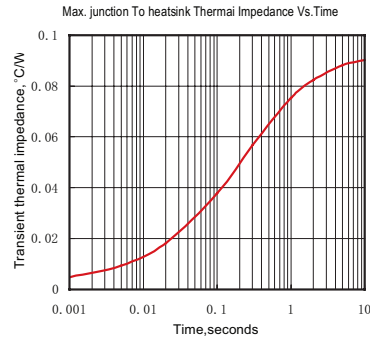


Fig.2

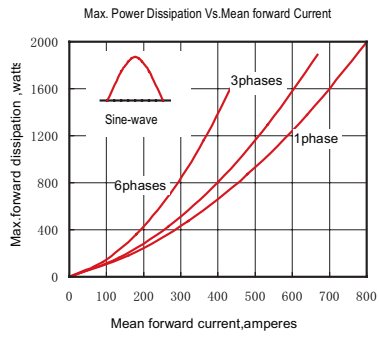


Fig.3

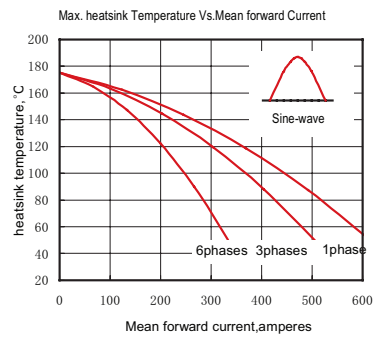


Fig.4

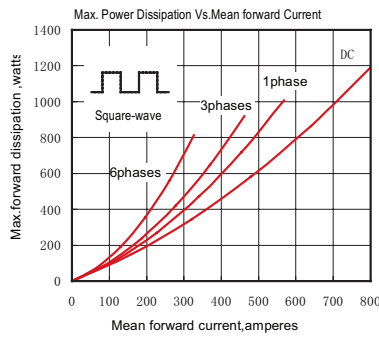


Fig.5

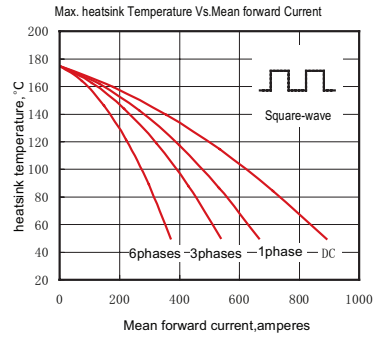


Fig.6

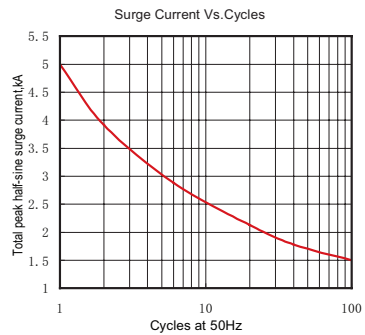


Fig.7

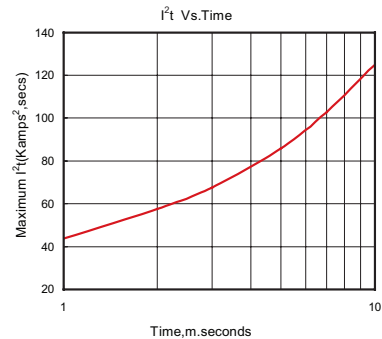
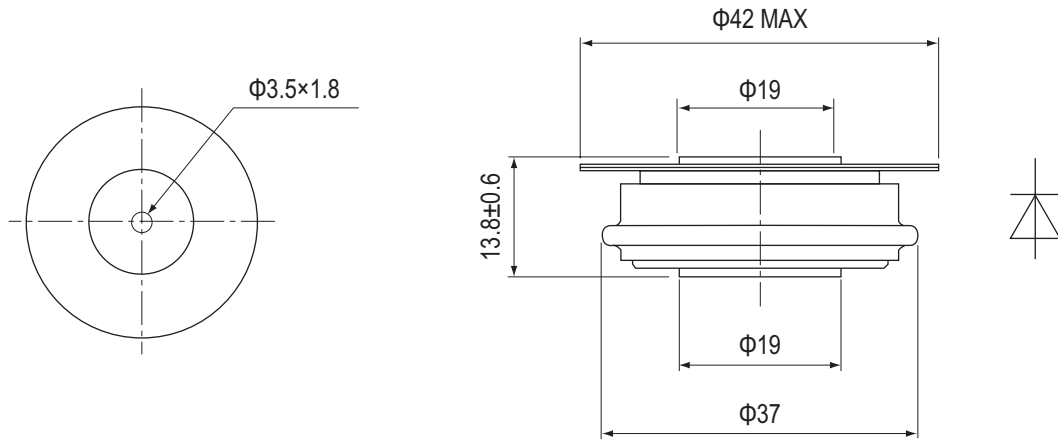


Fig.8

OUTLINE



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