

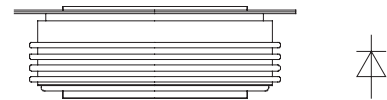
### FEATURES

- 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

$I_{F(AV)}$	3673 A
$V_{RRM}$	1100~2000 V
$I_{FSM}$	34 KA
$I^2t$	$5780 \cdot 10^3 A^2S$



### 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, $T_{hs}=55^{\circ}C$ $T_{hs}=126^{\circ}C$	175			3673 2000	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			120	mA
$I_{FSM}$	Surge on-state current	10ms half sine wave, $V_R=0.6V_{RRM}$	175			34	KA
$I^2t$	$I^2T$ for fusing coordination					5780	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		175			0.73	V
$r_F$	Forward slop resistance					0.10	mΩ
$V_{FM}$	Peak on-state voltage	$I_{TM}=4000A, F=28KN$	175			1.13	V
$I_{rm}$	Reverse recovery current					168	A
$t_{rr}$	Reverse recovery time	$I_{TM}=1500A, tp=1000 \mu s, di/dt=-20A/\mu s, V_R=50V$	175			6.8	μs
$Q_{rr}$	Recovery charge					571	μC
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 28.0KN				0.022	°C /W
$F_m$	Mounting force			21		30	KN
$T_{stg}$	Stored temperature			-40		190	°C
$W_t$	Weight				650		g
Size	Package box size					160 × 145 × 65	mm

**PERFORMANCE CURVES FIGURE**

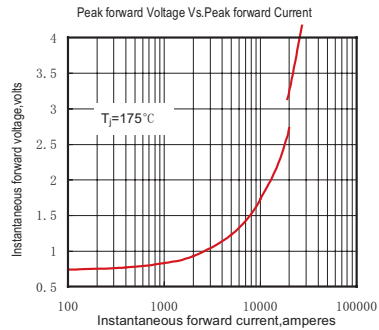


Fig.1

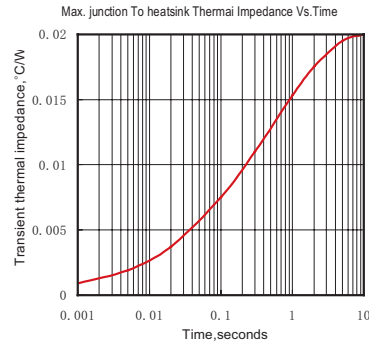


Fig.2

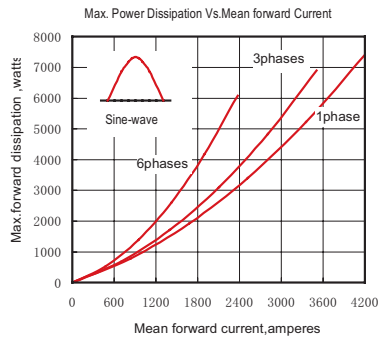


Fig.3

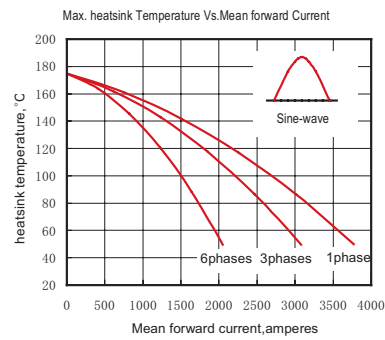


Fig.4

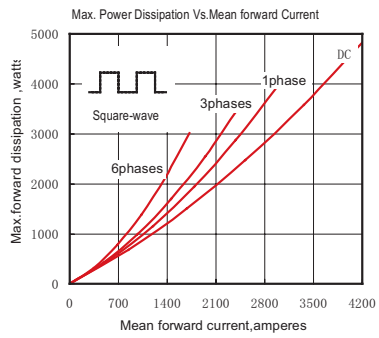


Fig.5

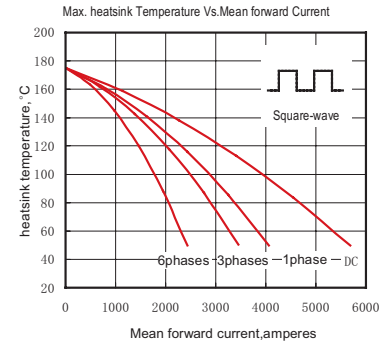


Fig.6

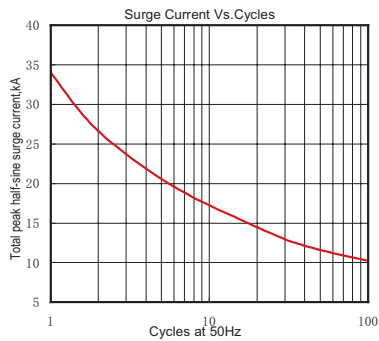


Fig.7

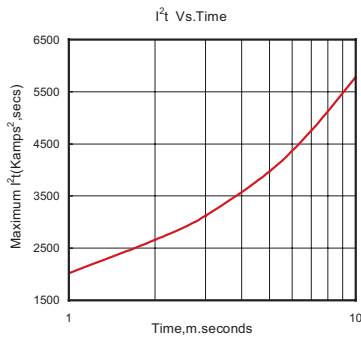
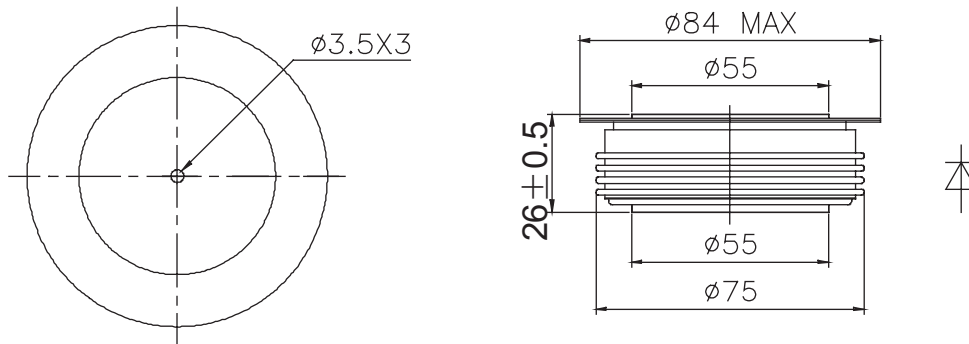


Fig.8

**OUTLINE**



**YUEQING LIUJING RECTIFIER CO., LTD**

Sale Department: Liuqing Building, Yueqing City,  
Zhejiang Province

Add: Wanao Industrial Zone, Yueqing city,  
Zhejiang Province

Tel: 0086-577-62519692    0089-577-62519693

Fax: 0086-577-62518692

International Export: 0086-577-62571902

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