

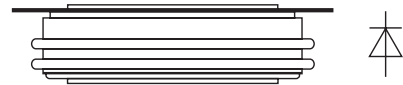
### FEATURES

- 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

$I_{F(AV)}$	4085 A
$V_{RRM}$	3100~3800 V
$I_{FSM}$	41 KA
$I^2t$	8405 $10^3 A^2S$



### 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, $T_{hs}=55^{\circ}C$ $T_{hs}=111^{\circ}C$	160			4085 2500	A
$V_{RRM}$	Repetitive peak reverse voltage	$V_{RRM}$ tp=10ms, $V_{RSM}=V_{RRM}+100V$	160	3100		3800	V
$I_{RRM}$	Repetitive peak current	$V_{RM}=V_{RRM}$	160			200	mA
$I_{FSM}$	Surge on-state current	10ms half sine wave, $V_R=0.6V_{RRM}$	160			41	KA
$I^2t$	$I^2T$ for fusing coordination					8405	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		160			0.95	V
$r_F$	Forward slop resistance					0.138	mΩ
$V_{FM}$	Peak on-state voltage	$I_{TM}=6000A, F=40KN$	160			1.78	V
$I_{rm}$	Reverse recovery current					150	A
$t_{rr}$	Reverse recovery time	$I_{TM}=2000A, tp=1000 \mu s, di/dt=-20A/\mu s, V_R=50V$	160			8.0	$\mu s$
$Q_{rr}$	Recovery charge					600	$\mu C$
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 40.0KN				0.011	$^{\circ}C /W$
$F_m$	Mounting force			35		47	KN
$T_{stg}$	Stored temperature			-40		180	$^{\circ}C$
$W_t$	Weight				1100		g
Size	Package box size			160 × 145 × 65			mm

**PERFORMANCE CURVES FIGURE**

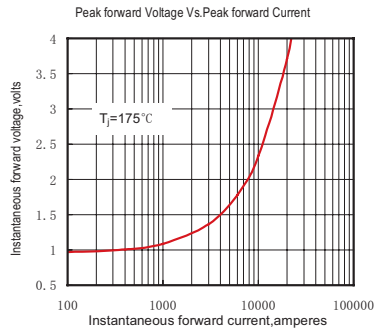


Fig.1

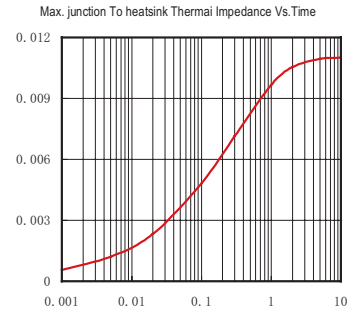


Fig.2

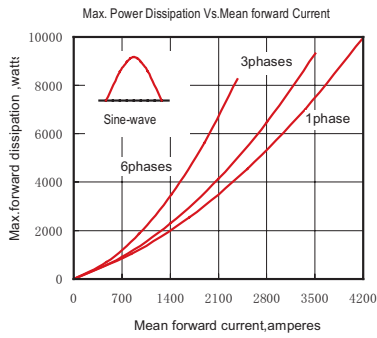


Fig.3

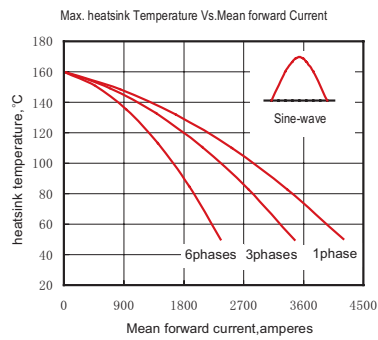


Fig.4

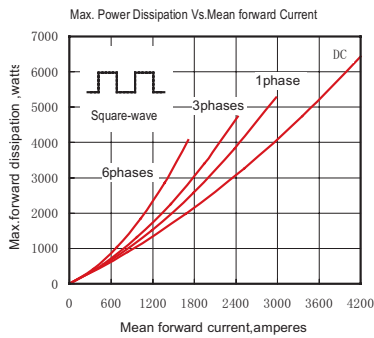


Fig.5

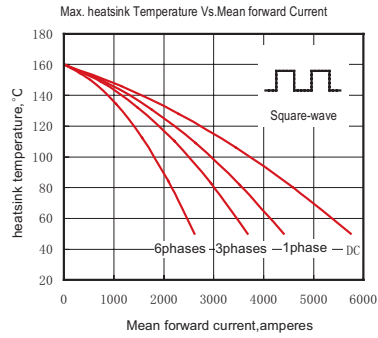


Fig.6

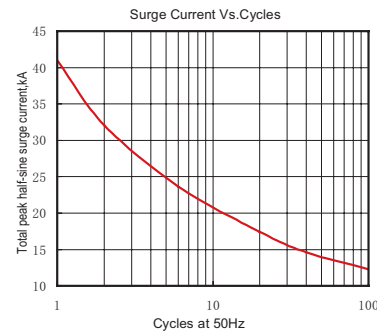


Fig.7

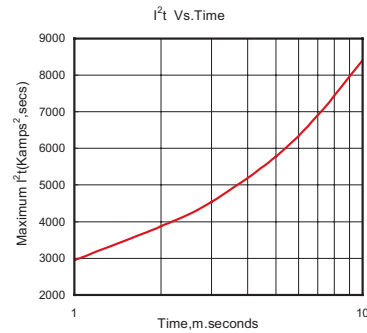
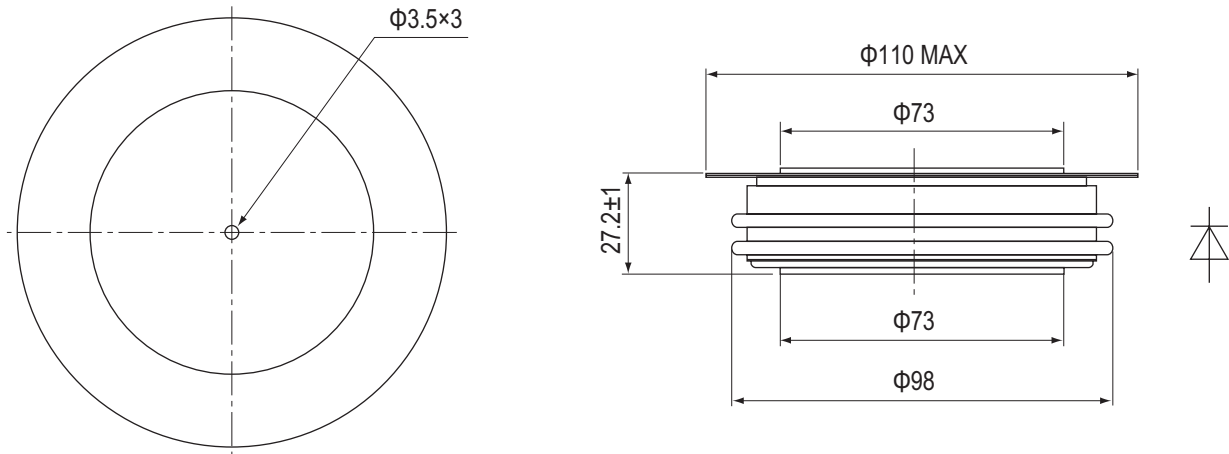


Fig.8

**OUTLINE**



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