

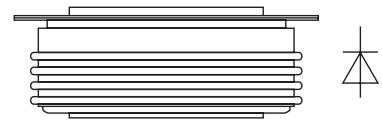
### FEATURES

- 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

$I_{F(AV)}$	2071 A
$V_{RRM}$	3100~3800 V
$I_{FSM}$	18 KA
$I^2t$	$1620 \cdot 10^3 A^2S$



### 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, $T_{hs}=55^{\circ}C$ $T_{hs}=136^{\circ}C$	160			2071 800	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			80	mA
$I_{FSM}$	Surge on-state current	10ms half sine wave, $V_R=0.6V_{RRM}$	160			18	KA
$I^2t$	$I^2T$ for fusing coordination					1620	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		160			0.98	V
$r_F$	Forward slop resistance					0.26	mΩ
$V_{FM}$	Peak on-state voltage	$I_{TM}=3800A$ , $F=24KN$	160			1.97	V
$I_{rm}$	Reverse recovery current					132	A
$t_{rr}$	Reverse recovery time	$I_{TM}=1500A$ , tp=1000 μs, di/dt=-20A/μs, $V_R=50V$	160			5.2	μs
$Q_{rr}$	Recovery charge					343	μC
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 24.0KN				0.022	$^{\circ}C /W$
$F_m$	Mounting force			19		26	KN
$T_{stg}$	Stored temperature			-40		180	$^{\circ}C$
$W_t$	Weight				470		g
Size	Package box size					95 × 95 × 50	mm

**PERFORMANCE CURVES FIGURE**

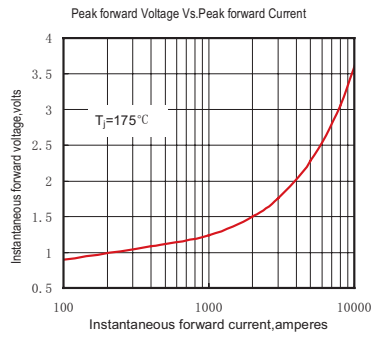


Fig.1

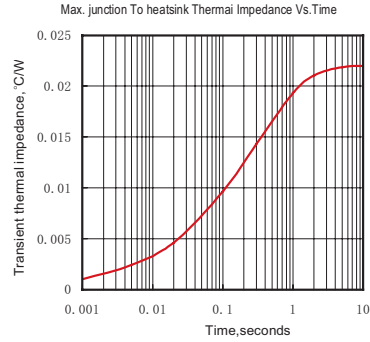


Fig.2

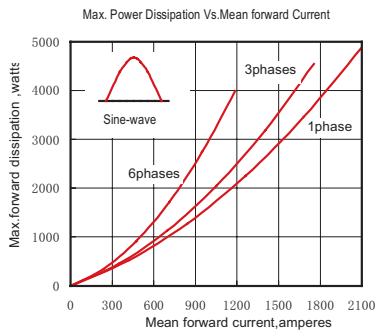


Fig.3

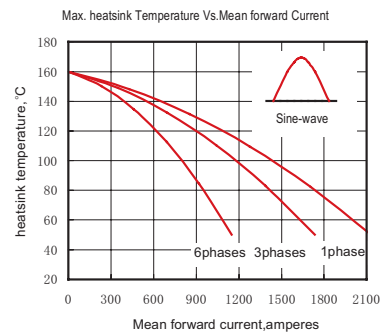


Fig.4

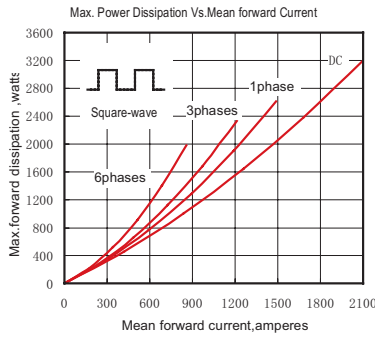


Fig.5

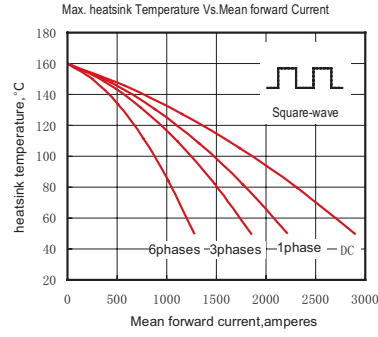


Fig.6

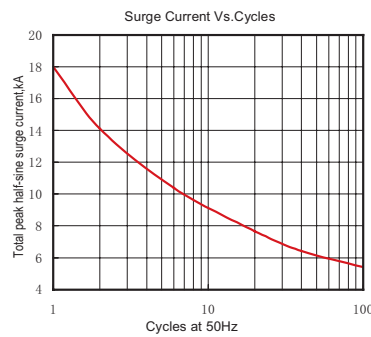


Fig.7

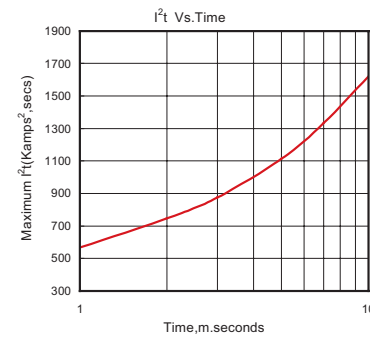
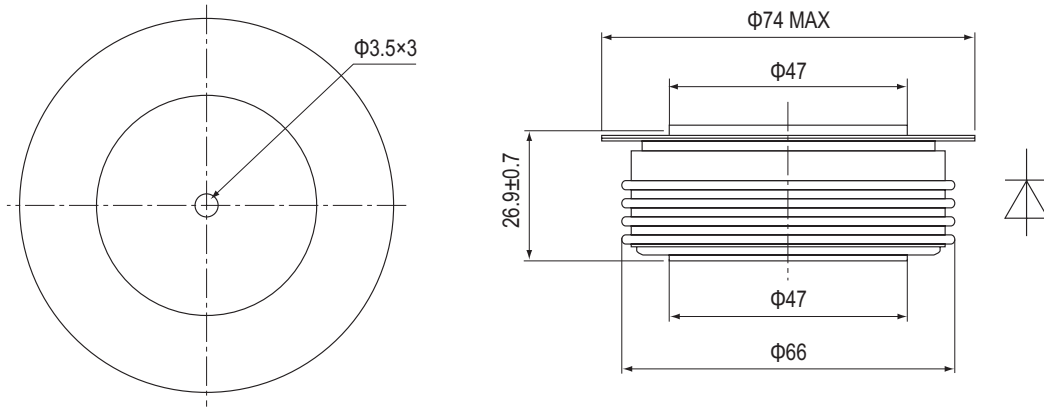


Fig.8

**OUTLINE**



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