

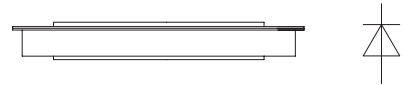
FEATURES

- 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

$I_{F(AV)}$	7110 A
V_{RRM}	200~600 V
I_{FSM}	55 KA
I^2t	15125 $10^3 A^2S$



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, $T_{hs}=55^{\circ}C$	170			7110	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} $t_p=10ms$, $V_{RSM}=V_{RRM}+100V$	170	200		600	V
I_{RRM}	Repetitive peak current	$V_{RM}=V_{RRM}$	170			50	mA
I_{FSM}	Surge on-state current	10ms half sine wave, $V_R=0.6V_{RRM}$	170			55	KA
I^2t	I^2T for fusing coordination					15125	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		170			0.74	V
r_F	Forward slop resistance					0.026	$m\Omega$
V_{FM}	Peak on-state voltage	$I_{TM}=5000A$, $F=24KN$	170			1.05	V
I_{rm}	Reverse recovery current					128	A
t_{rr}	Reverse recovery time	$I_{TM}=2000A$, $t_p=1000 \mu s$, $di/dt=-20A/\mu s$, $V_R=50V$	170			5.5	μs
Q_{rr}	Recovery charge					352	μC
$R_{th(j-h)}$	Thermal resistance Junction to heatsink	At 180° sine, double side cooled Clamping force 24.0KN				0.0135	$^{\circ}C /W$
F_m	Mounting force			19		26	KN
T_{stg}	Stored temperature			-40		170	$^{\circ}C$
W_t	Weight						g
Size	Package box size					95 × 95 × 50	mm

PERFORMANCE CURVES FIGURE

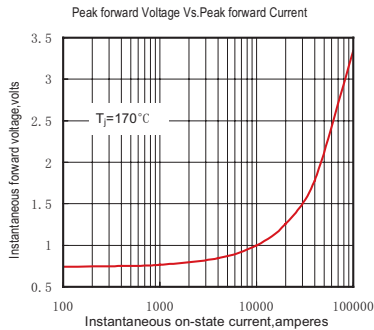


Fig.1

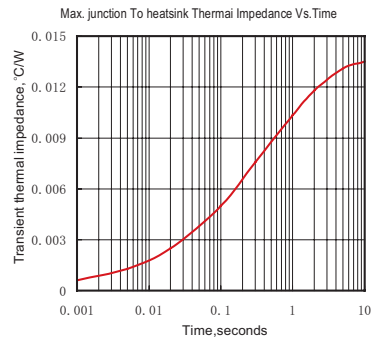


Fig.2

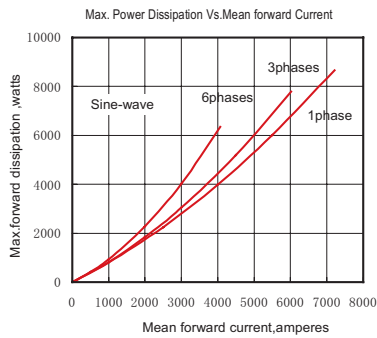


Fig.3

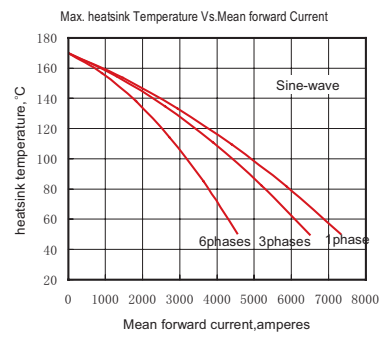


Fig.4

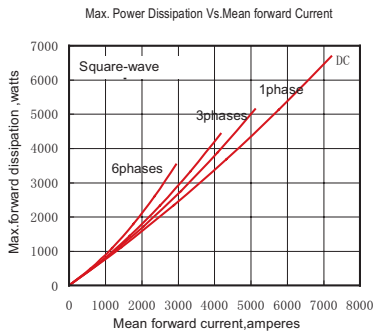


Fig.5

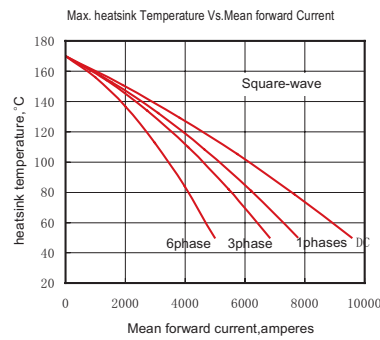


Fig.6

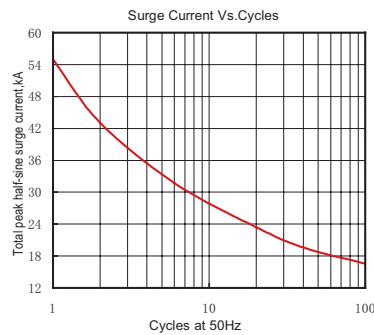


Fig.7

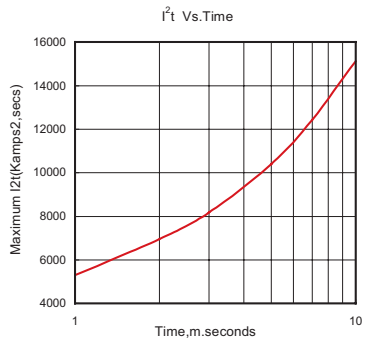
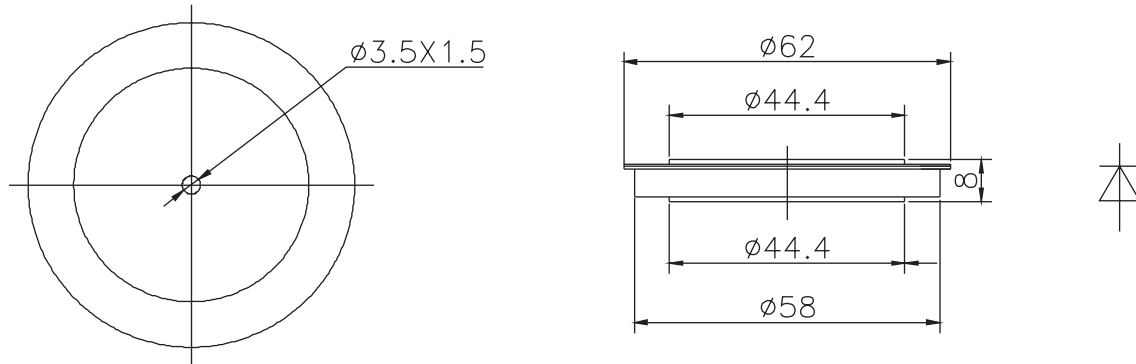


Fig.8

OUTLINE



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