

**Features**

- Low forward voltage drop
- High reverse voltage
- Hermetic metal cases with ceramic insulators

**Typical Applications**

- All purpose high power rectifier diodes
- High power resistance welding equipment
- Non-controllable and half-controllable rectifiers
- Controlled rectifiers

$I_{F(AV)}$	<b>860A</b>
$V_{RRM}$	<b>200~1000V</b>
$I_{FSM}$	<b>8 kA</b>
$I^2t$	<b>320 10<sup>3</sup>A<sup>2</sup>S</b>



SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T <sub>j</sub> (°C)	VALUE			UNIT
					Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled,	T <sub>C</sub> =85°C	190			860	A
$V_{RRM}$	Repetitive peak reverse voltage	tp=10ms		190	200		1000	V
$I_{RRM}$	Repetitive peak current	at V <sub>RRM</sub>		190			16	mA
$I_{FSM}$	Surge forward current	10ms half sine wave		190			8	kA
$I^2t$	I <sup>2</sup> t for fusing coordination	V <sub>R</sub> =0.6V <sub>RRM</sub>					320	A <sup>2</sup> s*10 <sup>3</sup>
$V_{FO}$	Threshold voltage			190			0.80	V
$r_F$	Forward slope resistance						0.34	mΩ
$V_{FM}$	Peak forward voltage	I <sub>FM</sub> =1930A, F=5.0kN		190			1.46	V
$Q_{rr}$	Recovery charge	I <sub>FM</sub> =1000A, tp=2000μs, di/dt=-20A/μs, V <sub>R</sub> =50V		190		1400		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine double side cooled Clamping force 5.0kN					0.080	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.020		
$F_m$	Mounting force				3.3		5.5	kN
$T_{stg}$	Stored temperature				-40		190	°C
$W_t$	Weight					60		g
Outline								

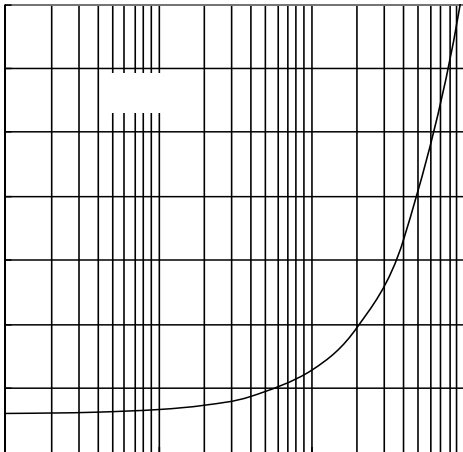


Fig1

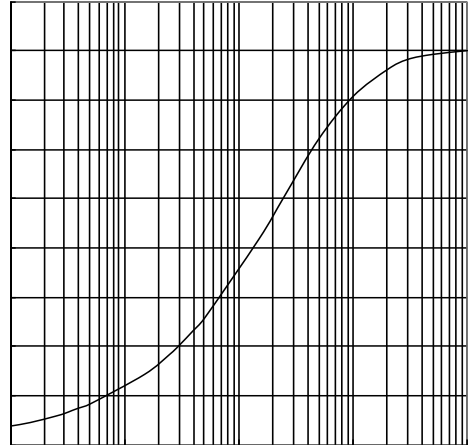


Fig2

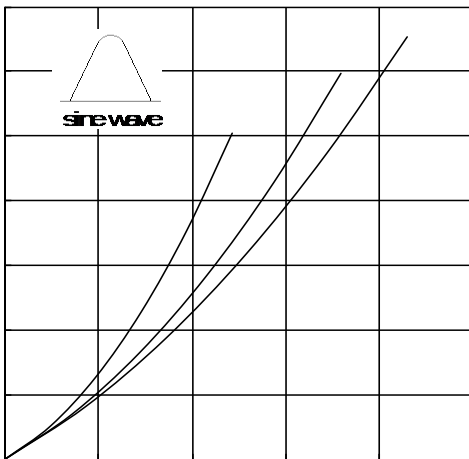


Fig3

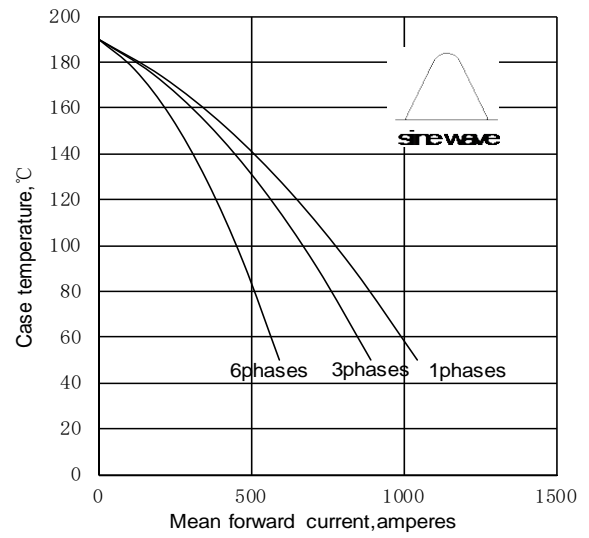


Fig4

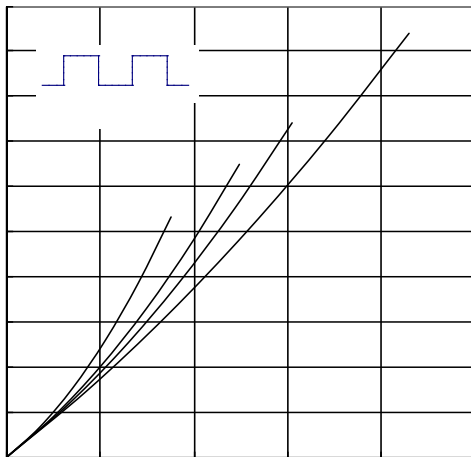


Fig5

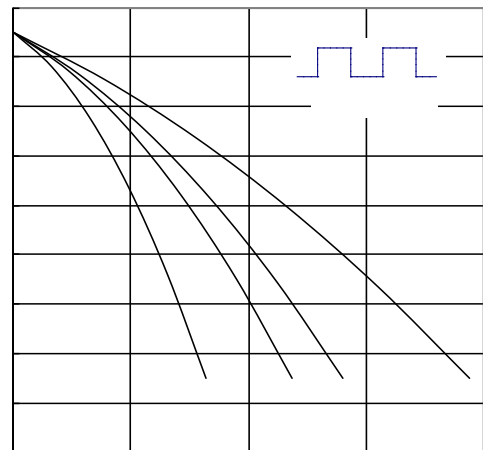


Fig6

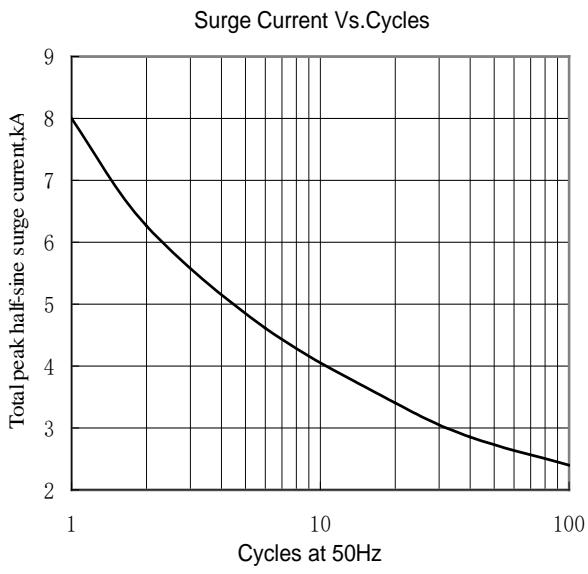


Fig.7

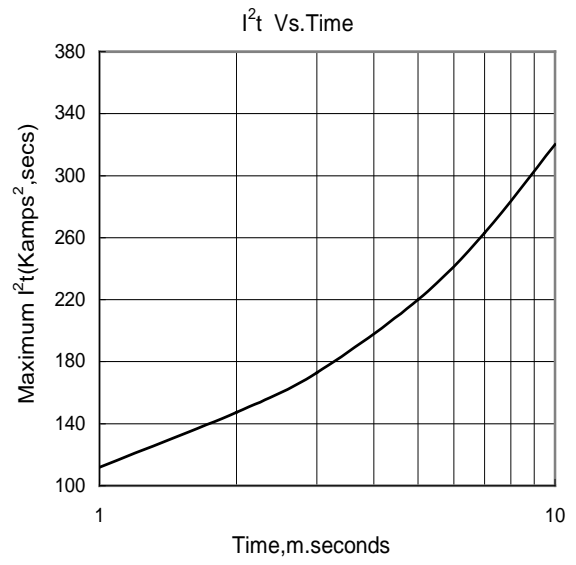


Fig.8

**Outline:**

