

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

$I_{F(AV)}$ 5630 A
 V_{RRM} 200~1000 V
 I_{FSM} 58 kA
 I^2t 16820 10³A²S



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T _j (°C)	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, T _C =85°C	190			5630	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms	190	200		1000	V
I_{RRM}	Repetitive peak current	at V_{RRM}	190			100	mA
I_{FSM}	Surge forward current	10ms half sine wave	190			58	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$				16820	A ² s*10 ³
V_{FO}	Threshold voltage		190			0.63	V
r_F	Forward slope resistance					0.058	mΩ
V_{FM}	Peak on-state voltage	$I_{FM}=5000A, F=32kN$	190			0.92	V
Q_{rr}	Recovery charge	$I_{FM}=2000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$	190		4500		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine- double side cooled Clamping force 32kN				0.013	°C /W
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.0035	
F_m	Mounting force			27		34	kN
T_{stg}	Stored temperature			-40		190	°C
W_t	Weight				820		g
Outline	P44						

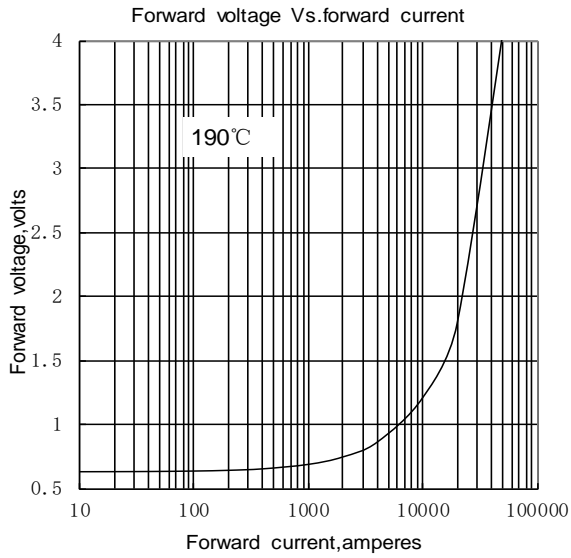


Fig.1

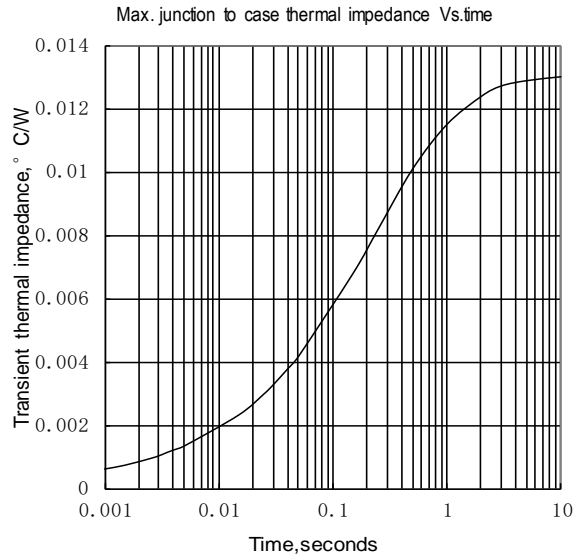


Fig.2

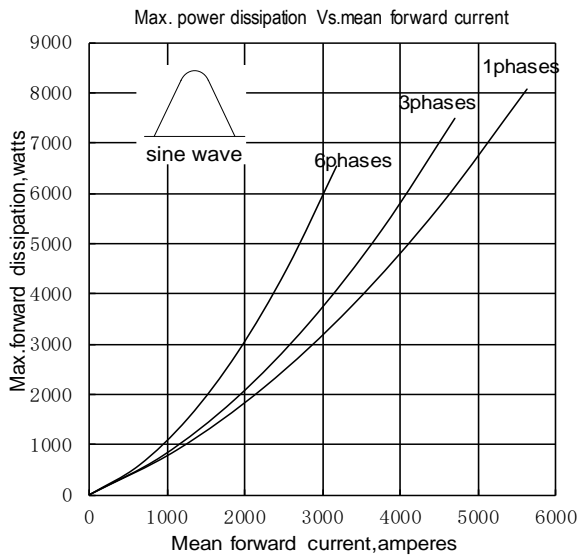


Fig.3

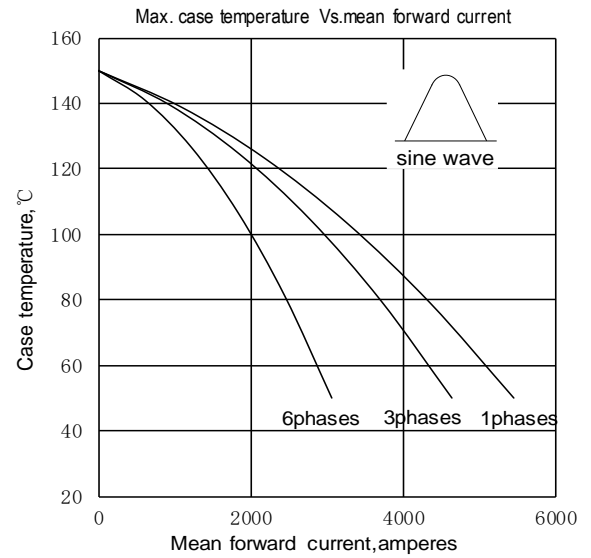


Fig.4

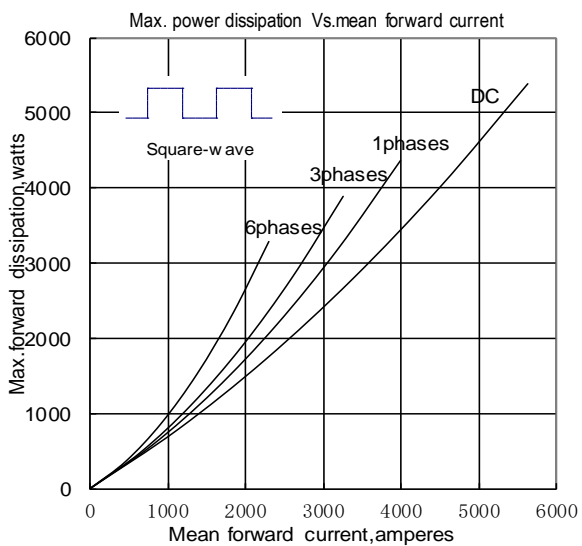


Fig.5

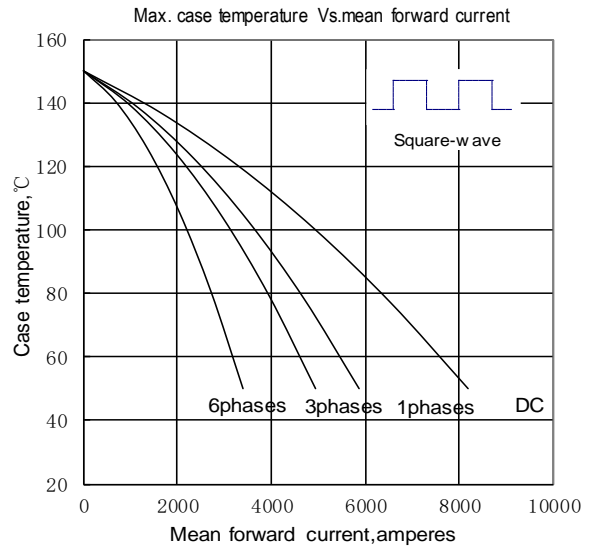


Fig.6

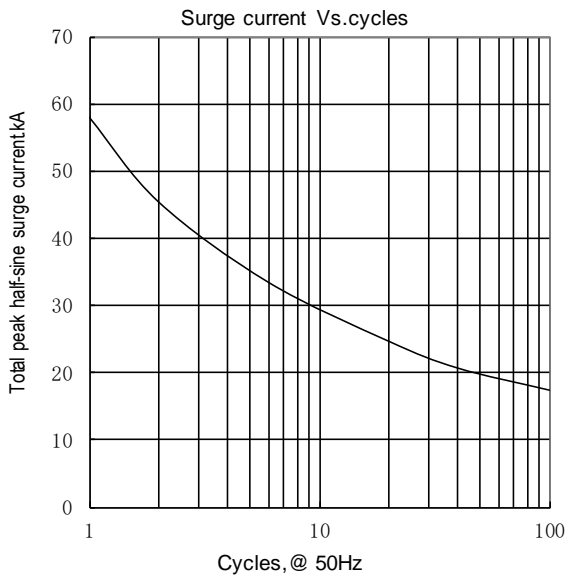


Fig.7

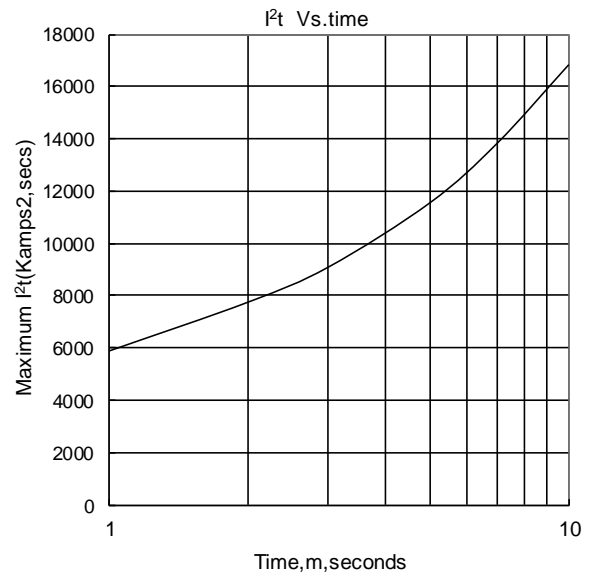


Fig.8

