

Features

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

$I_{F(AV)}$ 1510A
 V_{RRM} 5600 ~ 6500V
 I_{FSM} 26 kA
 I^2t 3380 10³A²S

Typical Applications

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

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 =100°C	150			1510	A
V_{RRM}	Repetitive peak reverse voltage	tp=10ms		150	5600		6500	V
I_{RRM}	Repetitive peak current	At V_{RRM}		150			150	mA
I_{FSM}	Surge forward current	10ms half sine wave		150			26	kA
I^2t	I^2t for fusing coordination	$V_R=0.6V_{RRM}$					3380	A ² s*10 ³
V_{FO}	Threshold voltage			150			0.92	V
r_F	Forward slope resistance						0.39	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=3000A, F=34kN$		25			1.85	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=4000\mu s, di/dt=-20A/\mu s, V_R=100V$		150		5000		μC
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. double side cooled Clamping force 34kN					0.014	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink						0.0035	
F_m	Mounting force				27		34	kN
T_{vj}	Junction temperature				-40		150	°C
T_{slg}	Stored temperature				-40		160	°C
W_t	Weight					820		g
Outline	P44a							

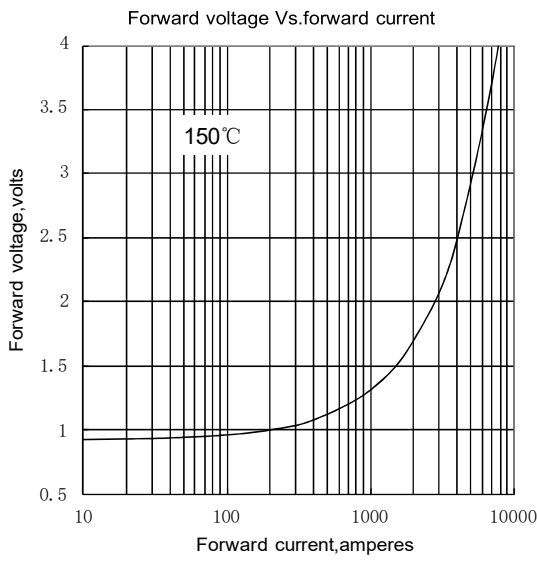


Fig.1

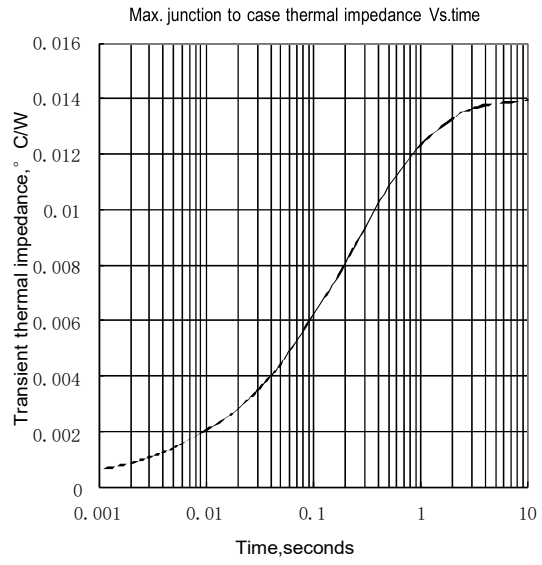


Fig.2

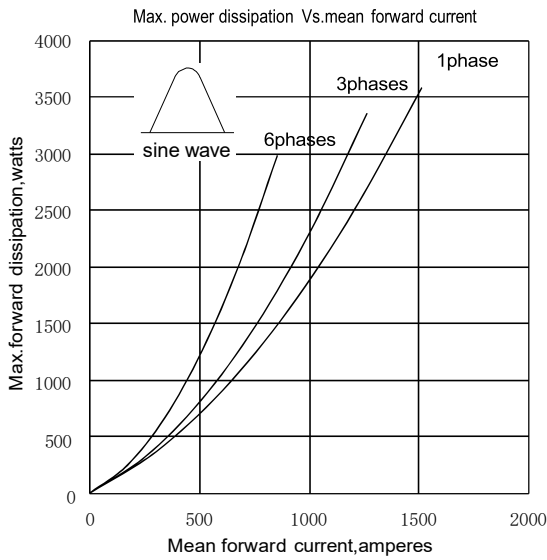


Fig.3

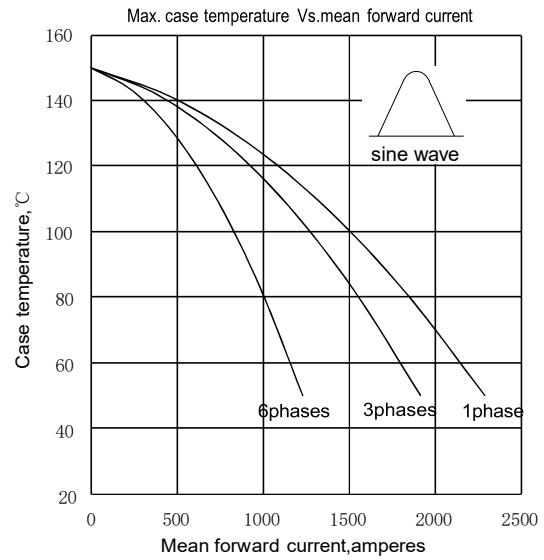


Fig.4

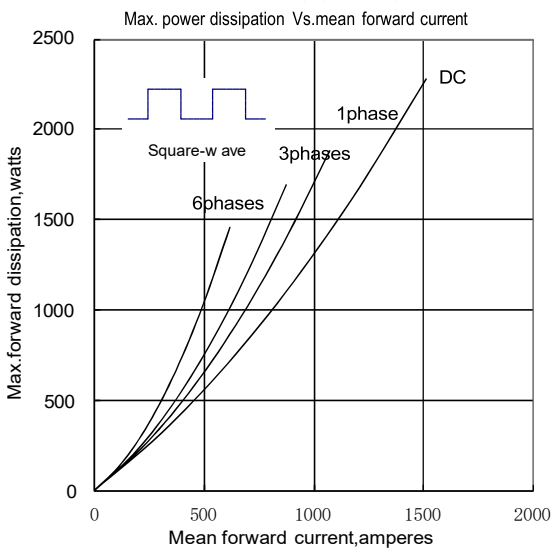


Fig.5

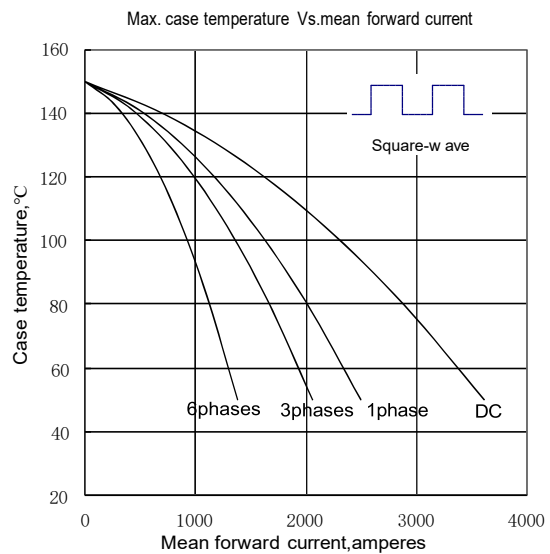


Fig.6

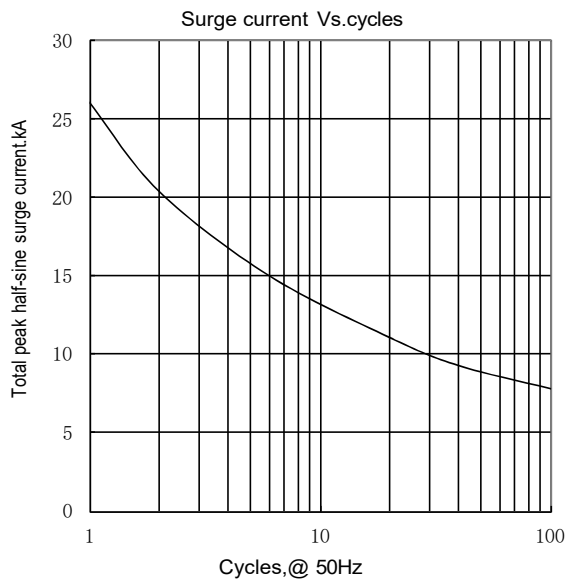


Fig.7

Outline:

