

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

$I_{F(AV)}$ **6500 A**
 V_{RRM} **8000 ~ 8500 V**
 I_{FSM} **100 kA**
 I^2t **50000 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 =100°C	150			6500	A
V _{RRM}	Repetitive peak reverse voltage	tp=10ms		150	8000		8500	V
I _{RRM}	Repetitive peak current	At V _{RRM}		150			500	mA
I _{FSM}	Surge forward current	10ms half sine wave		150			100	kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}						50000
V _{FO}	Threshold voltage			150			0.800	V
r _F	Forward slope resistance							0.125
V _{FM}	Peak forward voltage	I _{FM} =5000A, F=140kN		25			1.50	V
Q _{rr}	Recovery charge	I _{FM} =2000A, tp=4000μs, di/dt=-20A/μs, V _R =100V				14000		μC
R _{th(j-c)}	Thermal resistance Junction to case	D.C. Double side cooled Clamping force 24kN					0.0028	°C/W
R _{th(c-h)}	Thermal resistance case to heat sink						0.0006	
F _m	Mounting force				165		190	kN
T _{vj}	Junction temperature				-40		150	°C
T _{stg}	Stored temperature				-40		160	°C
W _t	Weight					4000		g
Outline	P58a							

Outline:

