Features :

- Center amplifying gate
- Metal case with ceramic insulator
- Low on-state and switching losses

Typical Applications :

- AC controllers
- DC and AC motor control
- Controlled rectifiers

$I_{T(AV)}$	**2800A**
V_{DRM}/V_{RRM}	**8000 ～ 8500V**
I_{TSM}	**40 kA**
I^2t	**8000 10^3A^2S**

SYMBOL	CHARACTERISTIC	TEST CONDITIONS		T_j(°C)	VALUE			UNIT
					Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Double side cooled	T_C=55°C	90			2800	A
I_{DRM} I_{RRM}	Repetitive peak current	at V_{DRM} tp=10ms at V_{RRM} tp=10ms		90			700	mA
I_{TSM}	Surge on-state current	10ms half sine wave V_R=0.6V_{RRM}		90			40	kA
I^2t	I^2t for fusing coordination						8000	10^3A^2s
V_{TO}	Threshold voltage			90			0.92	V
r_T	On-state slope resistance						0.32	mΩ
V_{TM}	Peak on-state voltage	I_{TM}=3000A, F=120kN		25			1.95	V
dv/dt	Critical rate of rise of off-state voltage	V_{DM}=0.67V_{DRM}		90			2000	V/μs
di/dt	Critical rate of rise of on-state current	V_{DM}=67%V_{DRM}, Gate pulse t_r ≤0.5μs I_{GM}=1.5A		90			100	A/μs
Q_{rr}	Recovery charge	I_{TM}=2000A, tp=4000μs, di/dt=-5A/μs, V_R=50V		90		6500		μC
I_{GT}	Gate trigger current	V_A=12V, I_A=1A		25	40		300	mA
V_{GT}	Gate trigger voltage				0.8		3.0	V
I_H	Holding current				25		200	mA
V_{GD}	Non-trigger gate voltage	V_{DM}=67%V_{DRM}		90			0.3	V
$R_{th(j-c)}$	Thermal resistance Junction to case	D.C. Double side cooled Clamping force 120kN					0.004	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink						0.001	
F_m	Mounting force				110	120	140	kN
T_{vj}	Junction temperature				-40		90	°C
T_{stg}	Stored temperature				-40		140	°C
W_t	Weight					3420		g
Outline	P31							

Outline: