

**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

Part No. H125KPS-KT110cT

I_{T(AV)} **3000A**
V_{DRM}, V_{RRM} **7200V**
7500V

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 =53°C	90			3000 A
I _{DRM} I _{RRM}	Repetitive peak current	at V _{DRM} tp=10ms at V _{RRM} tp=10ms		90			800 mA
I _{TSM}	Surge on-state current	10ms half sine wave		90			55 kA
I ² t	I ² t for fusing coordination	V _R =0.6V _{RRM}					15125 10 ³ A ² s
V _{TO}	Threshold voltage			90			1.15 V
r _T	On-state slope resistance						0.26 mΩ
V _{TM}	Peak on-state voltage	I _{TM} =3000A, F=120kN		25			1.90 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		6000	μC
I _{GT}	Gate trigger current				40		300 mA
V _{GT}	Gate trigger voltage	V _A =12V, I _A =1A		25	0.8		3.0 V
I _H	Holding current				25		250 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	Double side cooled					0.004 °C/W
R _{th(c-h)}	Thermal resistance case to heatsink	Clamping force 120kN					0.001 °C/W
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	KT110dT						

Outline: