**Features:**

- International standard cases
- Hermetic metal cases with ceramic insulators
- Capsule packages for double sided cooling

**Typical Applications**

- High power industrial and power transmission
- DC and AC motor control
- AC controllers

Part No. H38KSR-KS33dT			
$I_{T(AV)}$	175A	$V_{DRM}, V_{RRM}$	5600V 6000V 6500V

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_J(^\circ C)$	VALUE			UNIT
				Min	Type	Max	
$I_{T(AV)}$	Mean on-state current	180° half sine wave 50Hz Double side cooled	$T_c=70^\circ C$			175	A
$I_{T(RMS)F}$	RMS current(sine wave)	Sine wave 50Hz Double side cooled				385	A
$V_{DRM}$	Repetitive peak reverse voltage	$t_p=10ms$	125	5600		6500	V
$I_{DRM}$	Repetitive peak current	at $V_{DRM}$	125			100	mA
$I_{TSM}$	Surge on-state current	10ms half sine wave $V_R=0.6V_{RRM}$	125			1.7	kA
$I^2t$	$I^2t$ for fusing coordination					14.5	$10^3 A^2 s$
$V_{TO}$	Threshold voltage		125			1.10	V
$r_T$	On-state slope resistance					2.30	$m\Omega$
$V_{TM}$	Peak on-state voltage	$I_{TM}=500A, F=15kN$	25			3.50	V
$dv/dt$	Critical rate of rise of off-state voltage	$V_{DM}=0.67V_{DRM}$	125			200	$V/\mu s$
$di/dt$	Critical rate of rise of on-state current	$V_{DM}= 67\% V_{DRM}$ to 1000A, Gate pulse $t_r \leq 0.5\mu s$ $I_{GM}=1.5A$ Repetitive	125			100	$A/\mu s$
$I_{GT}$	Gate trigger current	$V_A=12V, I_A=1A$	25	20		200	mA
$V_{GT}$	Gate trigger voltage			0.8		2.5	V
$I_H$	Holding current			20		150	mA
$I_L$	Latching current					500	mA
$V_{GD}$	Non-trigger gate voltage	$V_{DM}=67\% V_{DRM}$	125			0.3	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Double side cooled Clamping force 15kN				0.045	$^\circ C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.008	
$F_m$	Mounting force			10		20	kN
$T_{vj}$	Junction temperature			-40		125	$^\circ C$
$T_{stg}$	Stored temperature			-40		140	$^\circ C$
$W_t$	Weight				300		g
Outline	KS33dT						

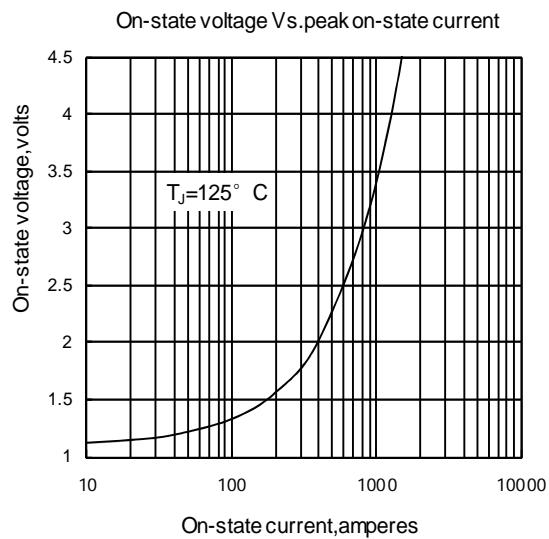


Fig1

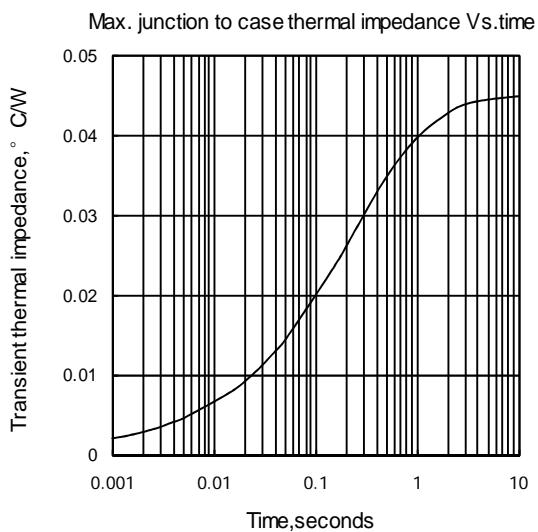


Fig2

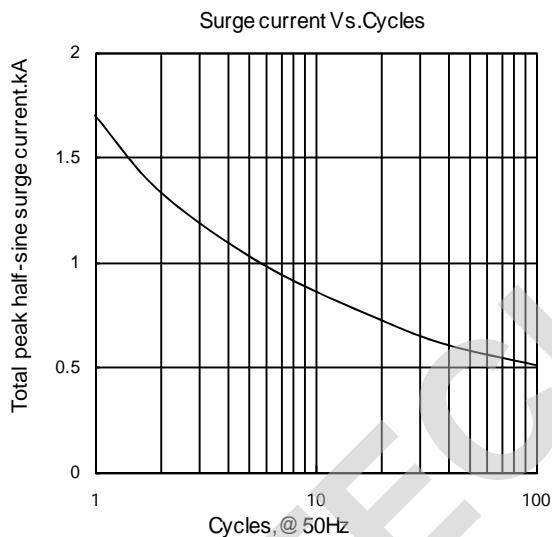


Fig3

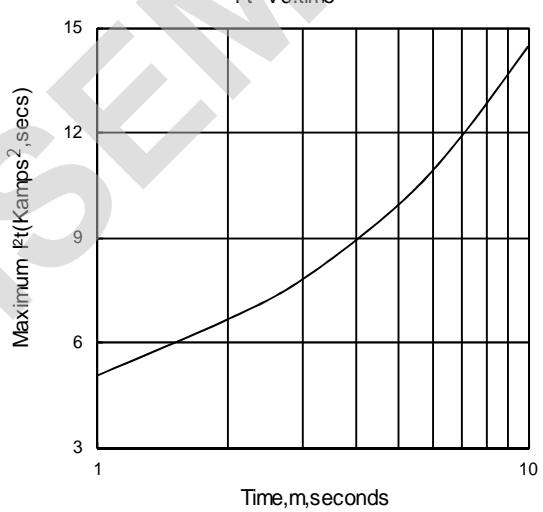


Fig4

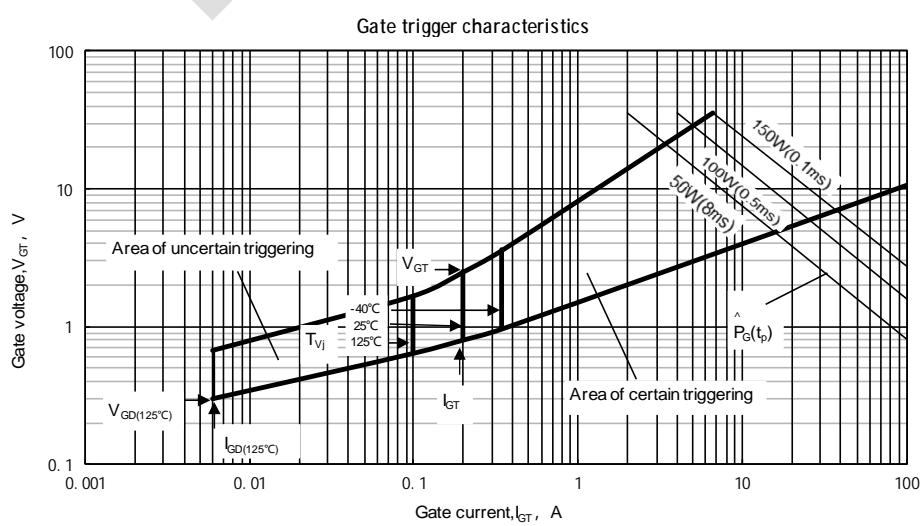
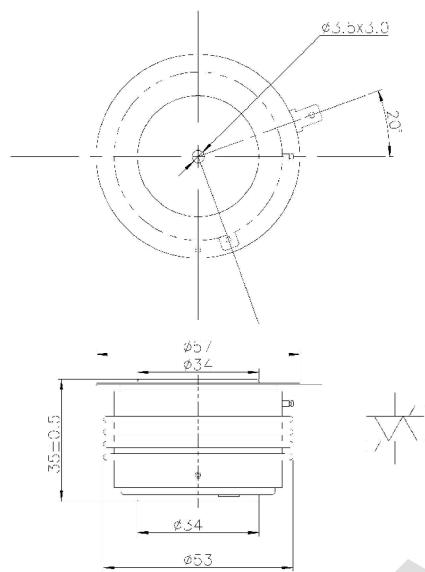


Fig5

**Outline:**

TECHSEM reserves the right to change specifications without notice.