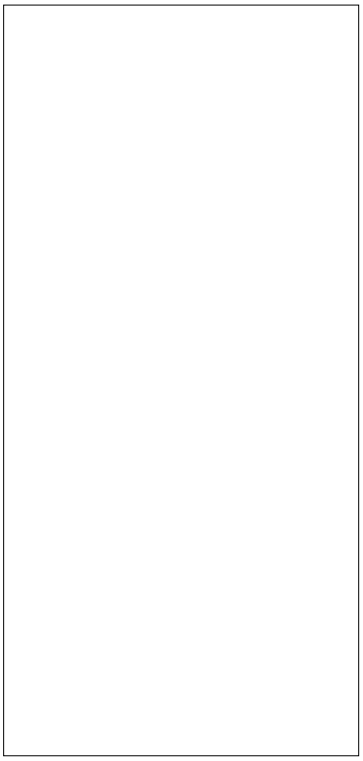
JCT625AH 25A SCR

Rev.A.1.1

DESCRIPTION:

With high ability to withstand the shock loading of large current, JCT625AH SCR provides high dV/dt rate with strong resistance to electromagnetic interference. It is especially recommended for use on solid state relay, motor drive, power charger, etc.



Average gate power dissipation (T_j=150)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	20	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	0.5	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	V_D=12V R_L=33Ω	-	-	20	mA
V_{GT}		-	-	1	V
V_{GD}	V_D=V_{DRM} T_j=150 R_L=3.3kΩ	0.2	-	-	V
I_L	I_G=1.2I_{GT}	-	-	70	mA
I_H	I_T=500mA	-	-	60	mA
dV/dt	V_D=400V Gate Open T_j=125	1 00	-	-	V/μs
	V_D=400V Gate Open T_j=150	00	-	-	
t_{on}	I_G=20mA I_A=200mA I_R=20mA T_j=25	-	2	-	μs
t_{off}		-	50	-	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=50A t_p=380μs	T_j=25	1.5	V
V_{TO}	Threshold voltage	T_j=150	0.7	V
R_D	Dynamic resistance	T_j=150	18	mΩ
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=150	5	mA

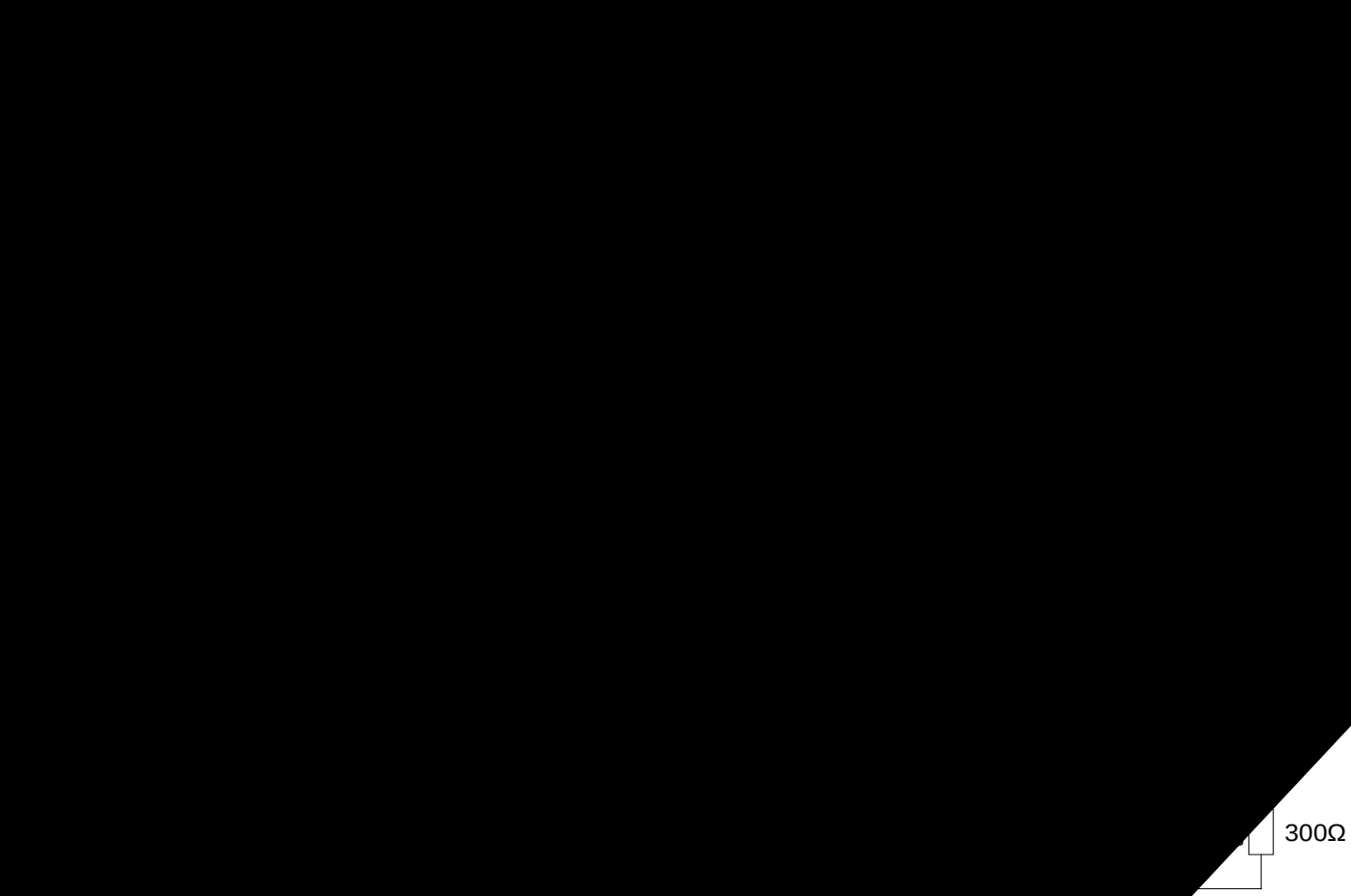
THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (DC)	1.16	/W
$R_{th(j-a)}$	junction to ambient (DC)	60	/W

JCT625AH

FIG.1: Maximum power dissipation versus RMS on-state current

FIG.2: RMS on-state current versus case temperature


300Ω

ORDERING INFORMATION

Order Code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	1CID 1 6 /P<</M

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