

$P_{G(AV)}$	1	W
P_{GM}	20	W
V_p	0.5	V

ELECTRICAL CHARACTERISTICS

Sym	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D = 540V, L = 10\mu H$	-	-	20	A
V_{GT}		-	-	1	V
V_{GD}	$V_D = 540V, T_j = 50^\circ C, R_L = 1k\Omega$	0.2	-	-	V
I_L	$I_G = 1.2 I_{GT}$	-	-	70	A
I_H	$I_T = 500mA$	-	-	60	A
dV/dt	$V_D = 540V, Gate = 125ns$	800	-	-	V/ μs
	$V_D = 540V, Gate = 150ns$	500	-	-	
t_b	$I_G = 0A, I_A = 0A, I_R = 0A, T_j = 50^\circ C$	-	2	-	μs
t_b		-	50	-	

STATIC CHARACTERISTICS

Sym	Test Condition	Value	Unit
V_{TM}	$I_{TM} = 50A, t_p = 380\mu s, T_j = 50^\circ C$	1.5	V
V_{TO}	$T_j = 50^\circ C$	0.7	V
R_D	$T_j = 50^\circ C, I = 1A$		

FIG.1: Main
S d -s e

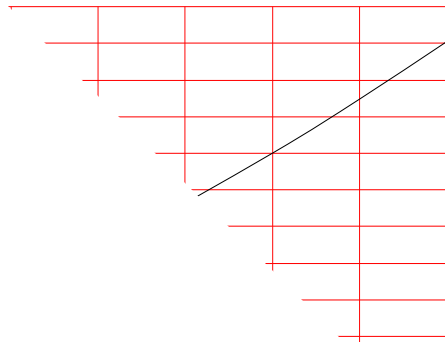
rdp
ce

is
it

FIG.2: RMS d -s e
e p

ce
ate

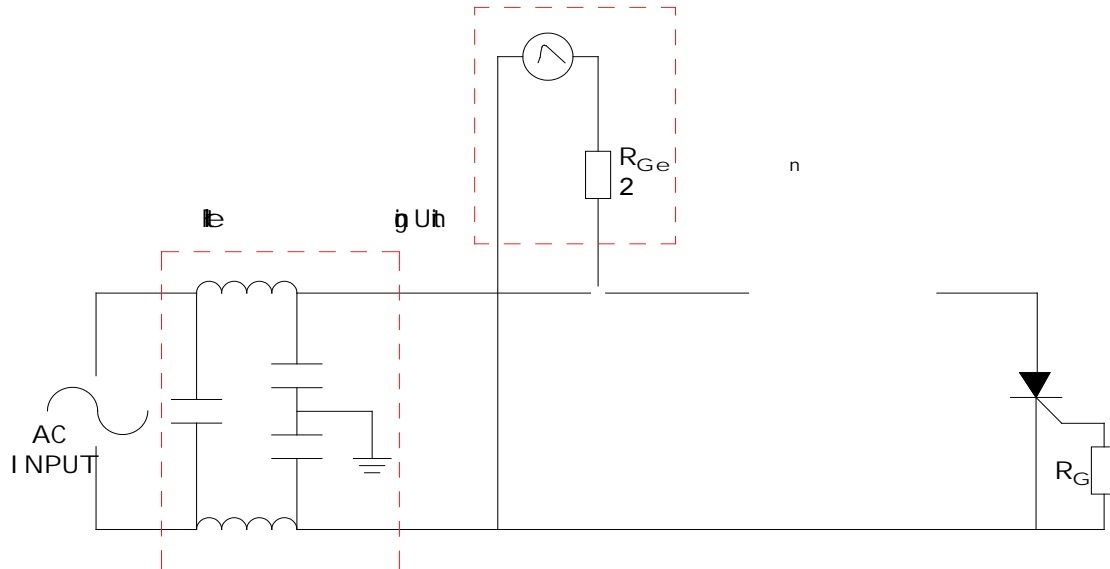
ite



IEC61000-4-5 Sads

Sge Ge e ab

1.2/50 μ S voltage surge
8/20 μ S current surge




ORDERING INFORMATION

Order	V _{DRM} /V _{RRM} (V)	IGT(μs)	Package	Base (p)	Device
JCT825AH	800	20	TO-220A(18)	50	Tub

e

Do Revision History

Date	Revision	Changes
Jun.15, 2023	A.1. 0	Initial
Oct. 11, 2025	A.1. 1	Re PACKAGING MECHANICAL DATA

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 How e... r... Ltd. as... Me...
 ce... ne... se...
 I have d... ct...
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