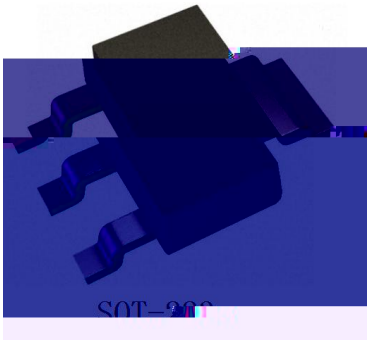
MCS2508L——

MCS2508L SOT-223

DC 10KHz



MCS2508L

IN

MCS2508L

DRAIN

MOSFET -

IN

-
-
-
- (ESD)
-
- MOSFET
- AEC-Q100
- RoHs

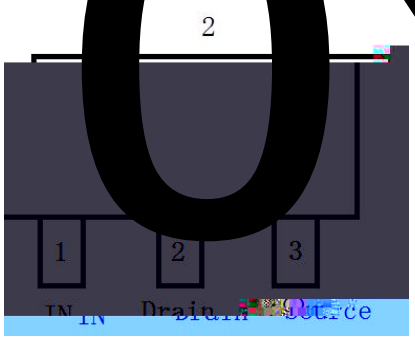
-
-
-
-

- 3.1

V_D		42	V
VIN(max)		7	V
RDS(ON,amb.typ)	(Tj=25 Vin=5V)	0.28	Ω
RDS(ON,hot.max)	(Tj=150 Vin=5V)	0.95	Ω
I_D		1.2	A

- 1)

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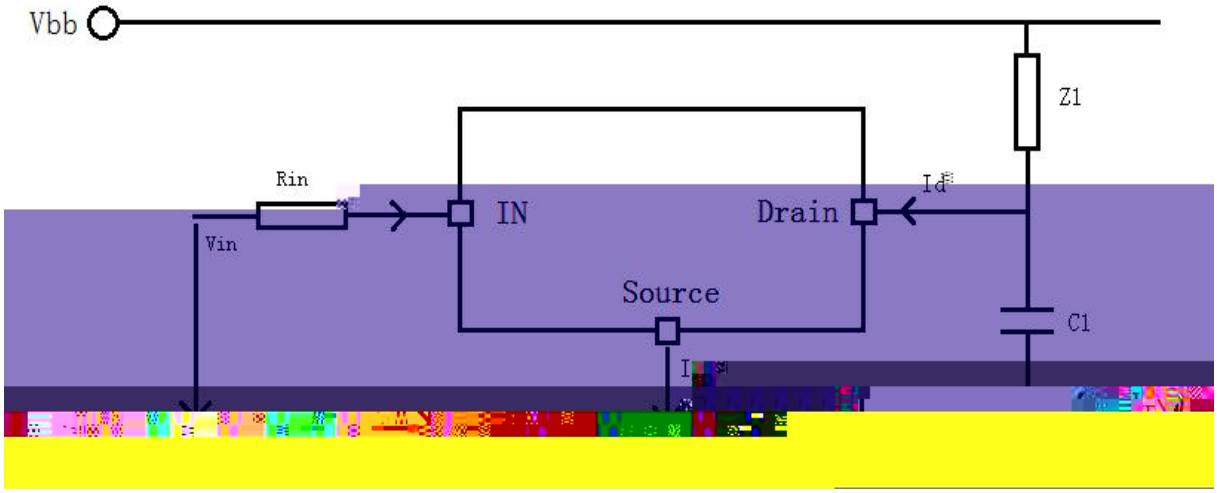
1	IN	/
2	Drain	/
3	Source	

MCS2508L ☿

5.2

5-2 MCS2508L

C1 C1 Drain



5-2 MCS2508L

6.1

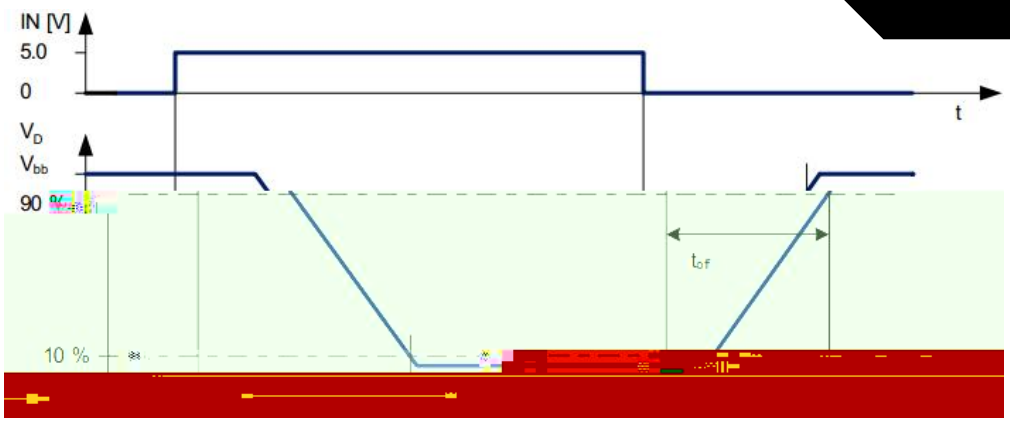
Tj = -40 +150

	VD	-	42	V	V_{IN} =0V, I_D=10mA
	V_{IN}	-0.2	7	V	-
	I_{IN}	-20	20	mA	V_{IN}<-0.2V V_{IN}>7V
	I_D	-	2	A	Tj=25
	Ptot	-	0.		

7.4

MOSFET

EMC 7-4



7-4

7.5

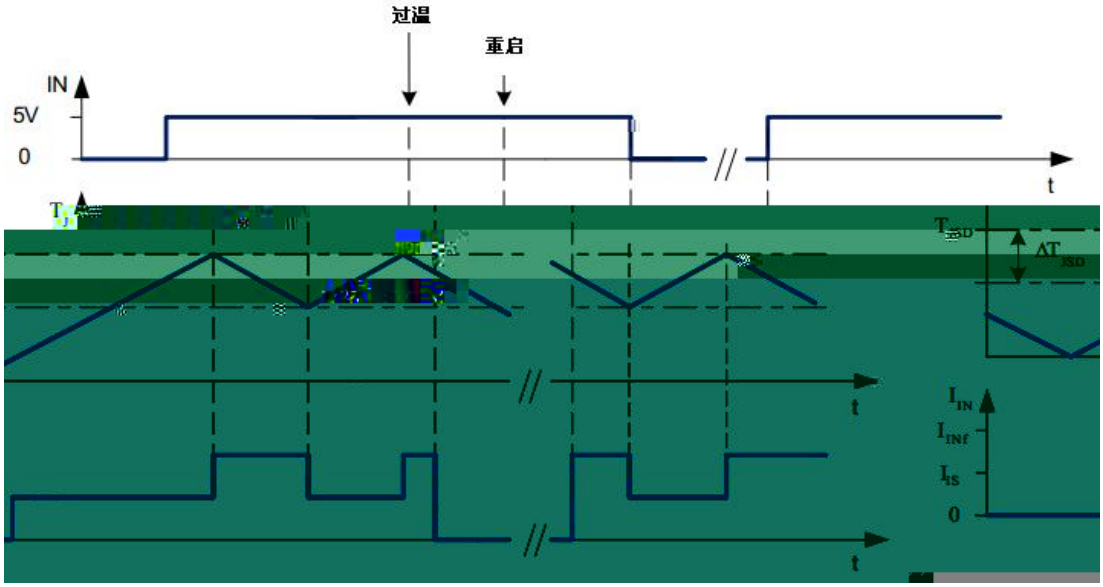
7.1

	$R_{DS(on)}$	-	0.28	-	Ω	Tj=25 V_{IN}=5V ID=200mA
		-	0.9	1.5	Ω	Tj=150 V_{IN}=5V ID=200mA
	I_{Dnom}	-	-	1.2	A	TA=25 V_{IN}=5V
	I_{DSS}	-	-	2	uA	VDS=13.5V VIN =0V T_J=150
		-	2.5	6	uA	VDS=32V VIN=0V T_J=-40~85
		-	4	7	uA	VDS=32V VIN =0V T_J=150
:Vbb=12V R_L=82Ω						
	t_{on}	-	30	60	us	V_{IN} = 7V to90%I_D
	t_{off}	-	40	80	us	V_{IN} = 0V to10%I_D
	V_D	-	-0.6	-1	V	I_D= -0.2mA V_{IN} = 0V

8.1

MOSFET

MCS2508L 8-1



8-1

8.2

- V_D

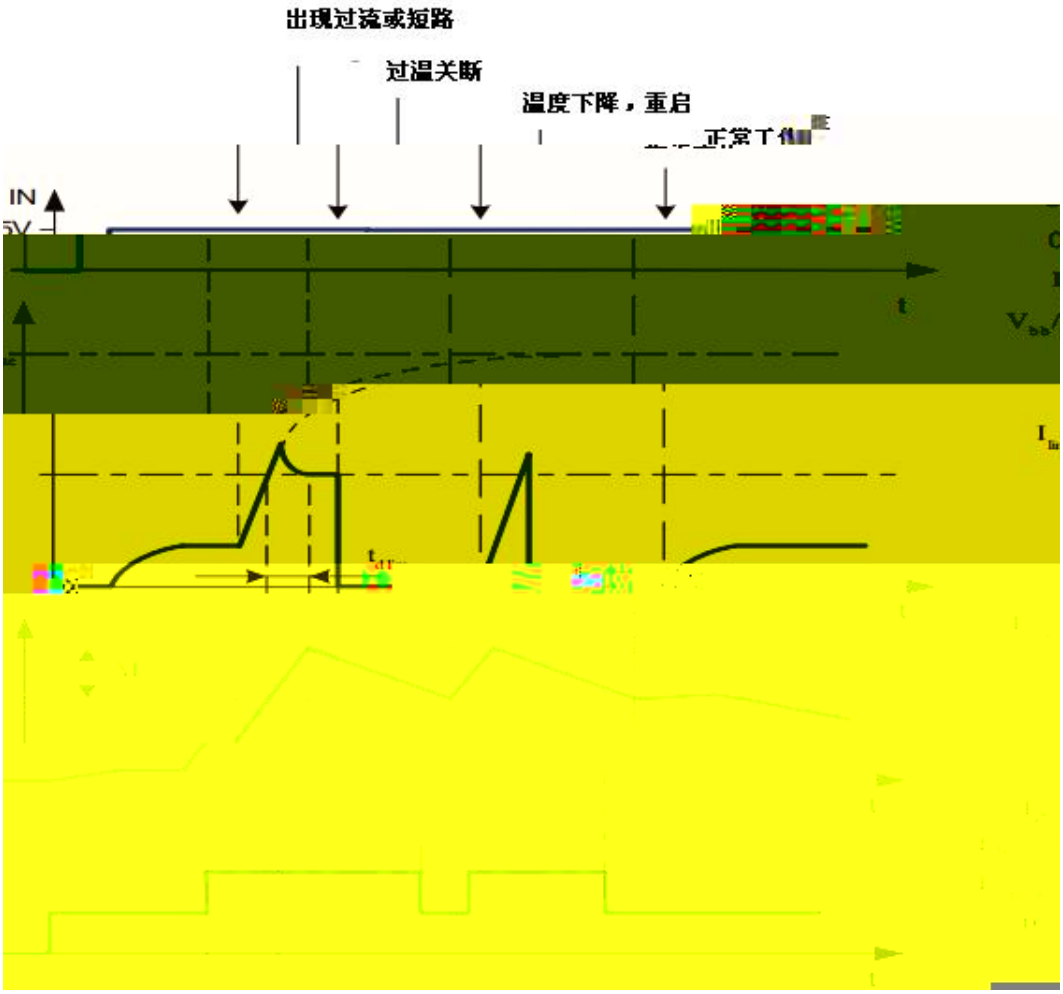
MCS2508L

8.3

Ilim

8-2

IINnom tdlim Ilim



8-2 MCS2508L

8.4

8.1

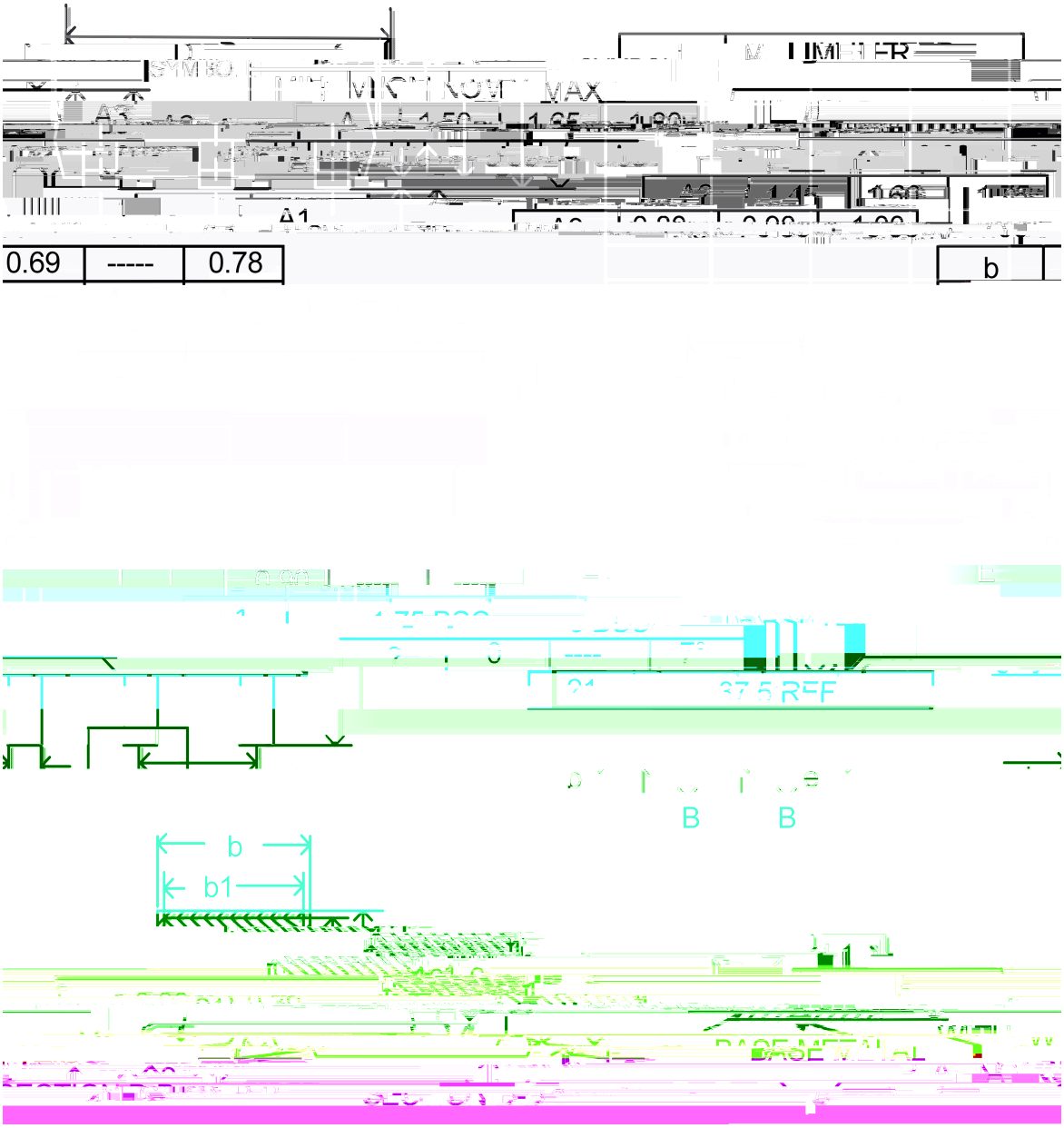
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8 - m

MCS2508L

SOT-223



MCS2508L	SOT-223	MCS2508L	2500pcs/