MCP4275-G——

1

MCP4275-G 5 TO 42V

5.0V VQ 450mA

VQ 4.65V RQ

D

1.1

MCP4275-G C_I

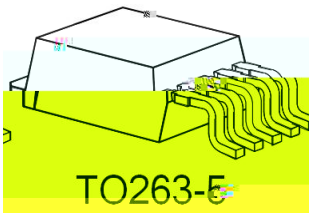
C_Q $C_Q \geq 22uF$ $ESR \leq 5\Omega$

1.2

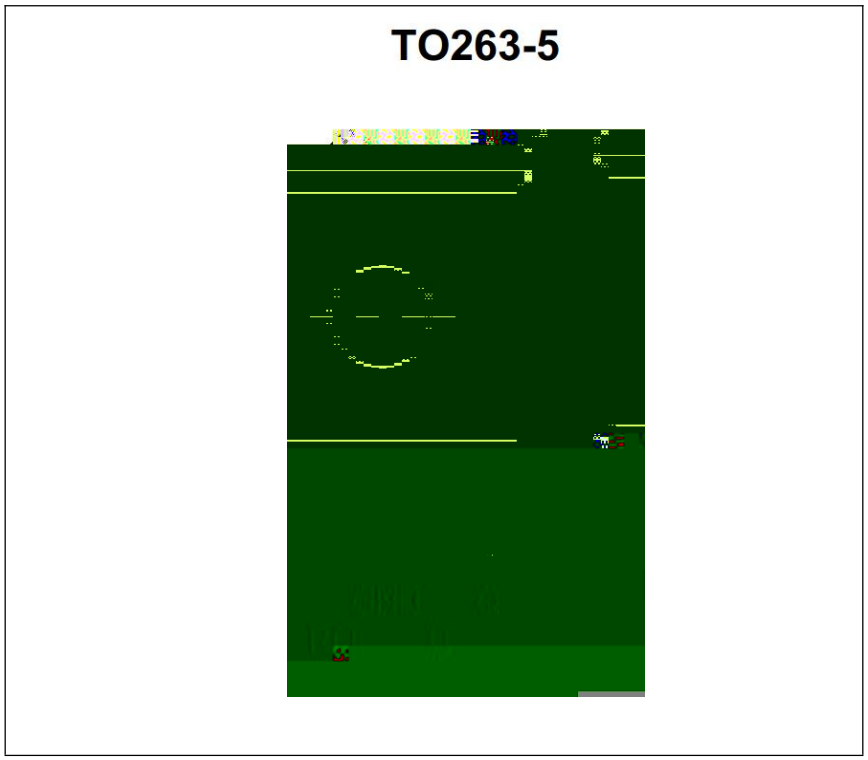
MOS

1.3

- 5V ±2%
- 80uA
-
-
-
- AEC-Q100
- RoHs



3



3-1

3.1

1	I	IC
2	RQ	VRT RQ
3	GND	
4	D	
5	Q	10KHz C_Q≥22uF ESR<5Ω

4

4.1

Tj=-40 150

	VI	-0.3	42	V	
	VQ	-0.3	12	V	
	Tj	-40	150		
	Tstg	-40	150		
	Rthj-a	50	90	K/W	
ESD	$V_{ESD-HBM}$	-2000	2000	V	1)
	$V_{ESD-CDM}$	-1000	1000	V	2)

1)ESD JESD22-A114

2)ESD JESD22-C101E

4.2

MCP4275-G(TO263-5)						
	RthJC		3.6		K/W	
	RthJA		22		K/W	PCB
			74		K/W	
			42		K/W	300 mm^2
			34		K/W	600 mm^2

1 ,

5

5.1

VI =



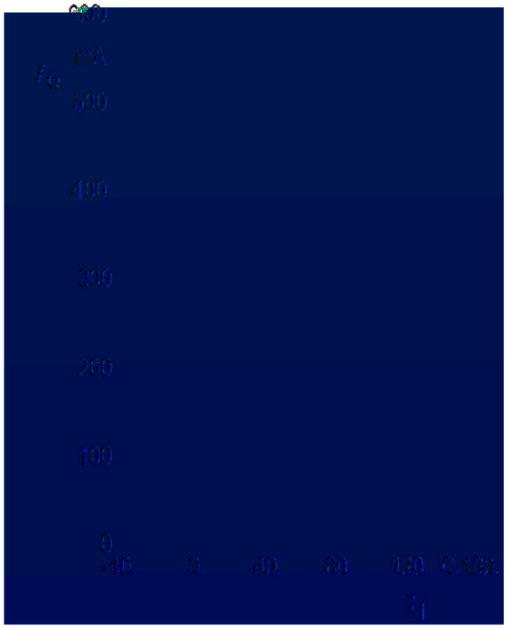


图 8-3 VS

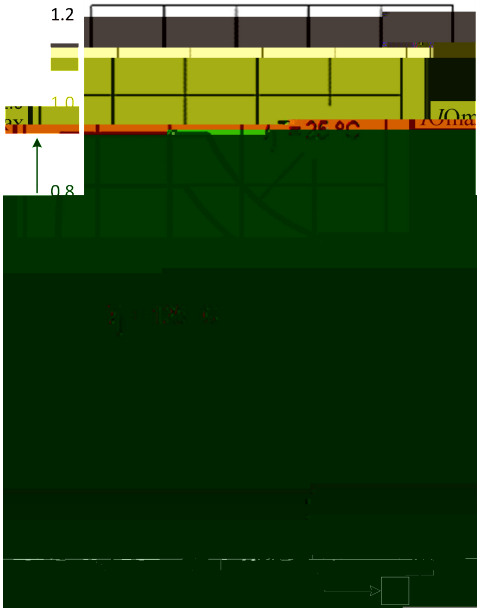


图 8-4 VS

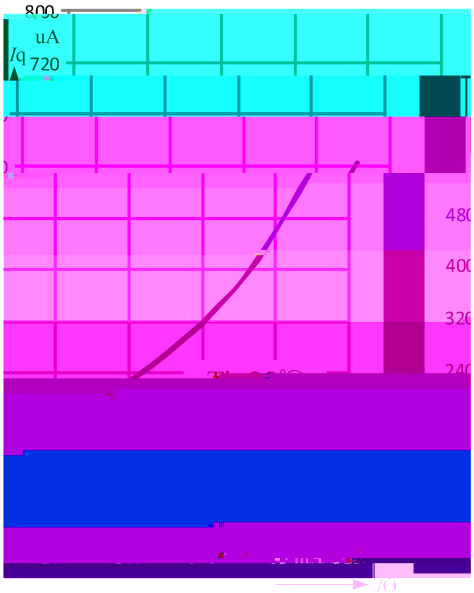


图 8-5 VS

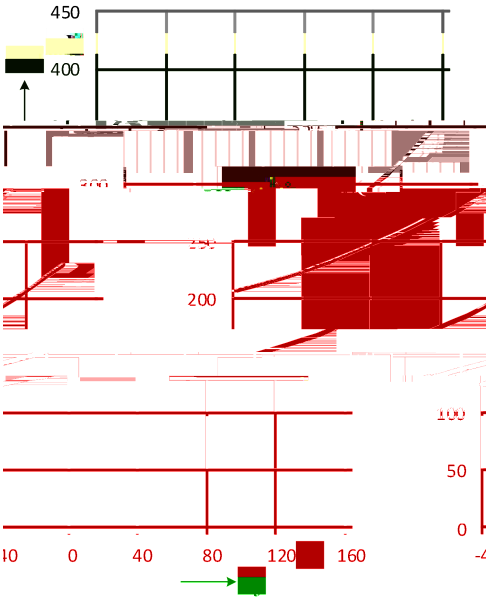
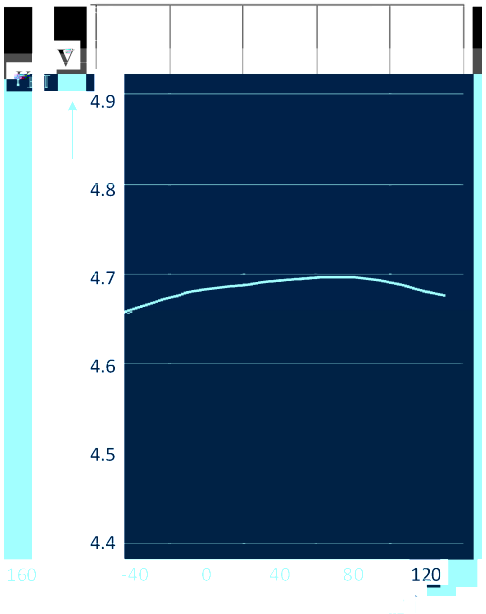


图 8-6 VS


V
4.9
4.8
4.7
4.6
4.5
4.4
160
-40
0
40
80
120

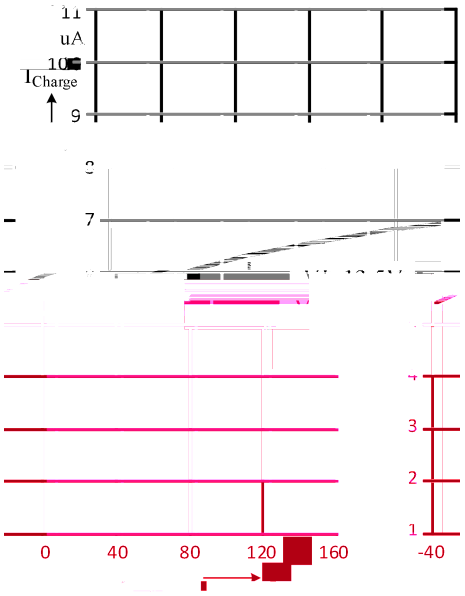

11
uA
10
ICharge
9
7
0
40
80
120
160
-40
3
2
1

图 8-7 VS

图 8-8 VS

9

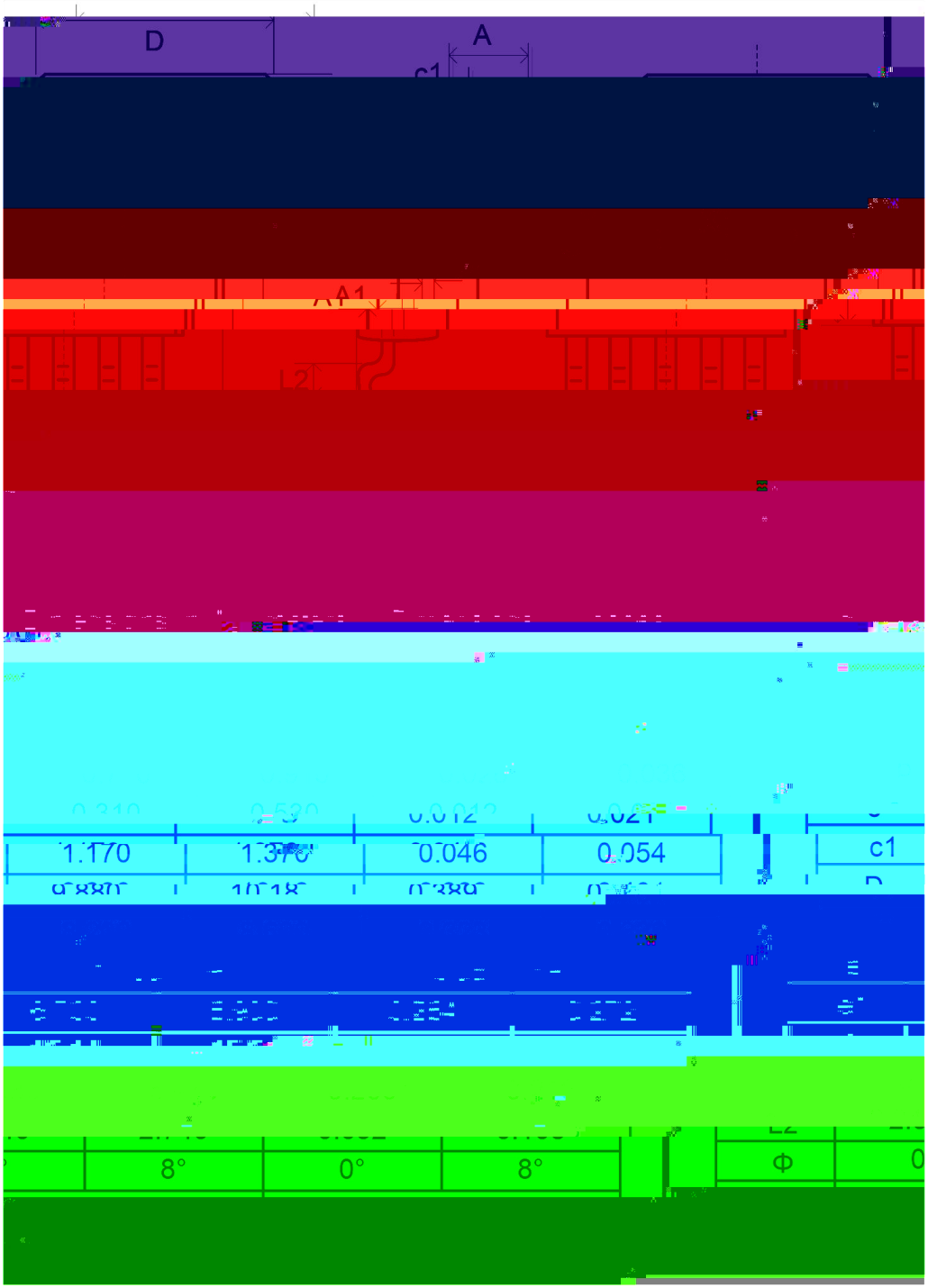


图 9-1 TO263-5