

MOS FET Array SLA5098 (under development)

Absolute Maximum Ratings (Ta=25°C)

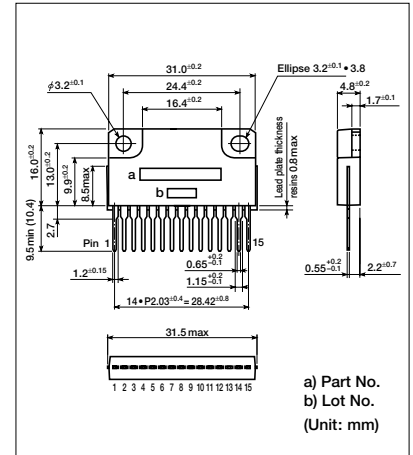
Symbol	Rating	Unit
V _{DSS}	40	V
V _{GSS}	±20	V
I _D	20	A
I _{D (pulse)*}	40	A
EAS	To be defined	mJ
IAS	To be defined	A
P _T	5 (Without heatsink, Ta=25°C, All circuits operate)	W
	90 (Ta=25°C, All circuits operate)	W
T _{ch}	150	°C
T _{stg}	-55 to +150	°C

* P_w ≤ 100μs, duty ≤ 1%

Electrical Characteristics (Ta=25°C)

Symbol	Test Conditions	Ratings			Unit
		min	typ	max	
V _{(BR) DSS}	I _D = 100μA, V _{GS} = 0V	40			V
I _{GSS}	V _{GS} = ±15V			±10	μA
I _{DSS}	V _{DS} = 40V, V _{GS} = 0V			100	μA
V _{TH}	V _{DS} = 10V, I _D = 250μA	1.5		2.5	V
R _{e (yfs)}	V _{DS} = 10V, I _D = 10A	10			S
R _{DS (ON)}	V _{GS} = 10V, I _D = 10A			17	mΩ
C _{iss}	V _{DS} = 10V		1450		pF
C _{oss}	f = 1.0MHz		420		pF
C _{rss}	V _{GS} = 0V		260		pF
t _{d (on)}	I _D = 10A		40		ns
t _r	V _{DD} = 14V		40		ns
t _{d (off)}	R _L = 1.4Ω		200		ns
t _f	V _{GS} = 10V		100		ns
	R _G = 50Ω				ns
V _{SD}	I _{SD} = 10A, V _{GS} = 0V		0.85	1.2	V
t _{rr}	I _{SD} = 10A, V _{GS} = 0V di/dt = 100A/μs		45		ns

External Dimensions STA4 (LF412)



Equivalent Circuit Diagram

