

型号 : SLS7N60

N-Channel Hannel MOSFET TO-252 Plastic Package.

主要特性/Features

7A, 600V, $R_{DS(ON)MAX}=1.3\Omega @ V_{GS}=10V/3.5A$

Low gate charge

Low C_{iss}

Fast switching

100% avalanche tested

Improved dv/dt capability

应用/Application

Server and telecom power supplies

Switch mode power supplies (SMPS)

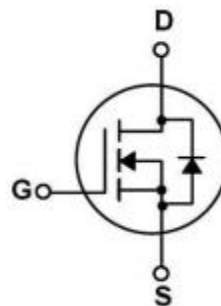
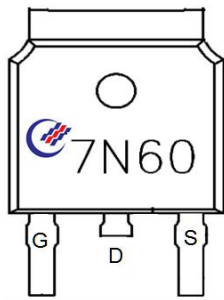
Power factor correction power supplies (PFC)

Lighting

High-intensity discharge (HID)

Fluorescent ballast lighting

印字/MARKING等效电路/Equivalent Circuit



极限参数/Absolute Maximum Ratings ($T_c=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	LIMIT	UNIT
Drain-Source Voltage	V_{DSS}	600	V
Gate-Source Voltage	V_{GSS}	± 30	
Continuous Drain Current	I_D	7	A
Pulsed Drain Current (Note 1)	I_{DM}	24	
Single Pulse Avalanche Energy (Note 2)	E_{AS}	150	mJ
Reverse Diode dv/dt (Note 3)	dv/dt	15	V/ns
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150	$^\circ\text{C}$
Maximum lead temperature for soldering purposes, 1/8" from case for 5 seconds	T_L	260	$^\circ\text{C}$

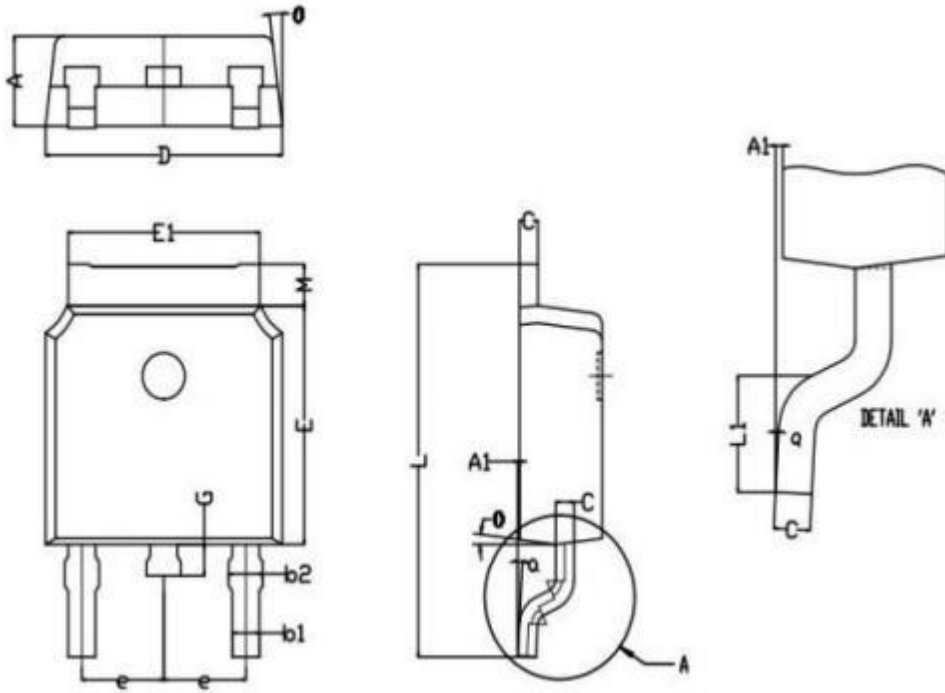
TO252-2L Plastic-Encapsulate

电性能参数/Electrical Characteristics (TA=25°C unless otherwise noted)

Parameter	Description	Min.	Typ.	Max.	Test Conditions	Unit	
V(BR)DSS	Drain-to-Source Breakdown Voltage	600	--	--	V _{GS} = 0V, I _D = 250μA	V	
V _{GS}	Gate-to-Source Voltage	--	--	±30	NA	V	
I _D (Device Ref.)	Continuous Drain Current(PKG:TO-220)	--	--	7	T _J = 25°C	A	
R _{DS(on)}	Static Drain-to-Source On-Resistance	--	--	1.3	V _{GS} = 10V, I _D = 3.5A	Ω	
V _{GS(th)}	Gate Threshold Voltage	2.0	--	4.0	V _{DS} = V _{GS} , I _D = 250μA	V	
I _{DSS}	Drain-to-Source Leakage Current	--	--	1	V _{DS} = 600V, V _{GS} = 0V, T _J = 25°C	μA	
I _{GSS}	Gate-to-Source Leakage Current	--	--	±100	V _{GS} = ±30V	nA	
T _J	Operating Junction and Storage Temperature Range					-55°C to 150 °C Max.	°C
T _{STG}							



成品外观尺寸/TO252-2LPackageInformation



Symbol	Dim in mm		
	Min	Nor	Max
A	2.25	2.30	2.35
L1	2.90	3.00	3.10
b1	0.71	0.76	0.81
b2	0.91	0.96	1.01
C	0.46	0.51	0.56
D	6.55	6.60	6.65
e	2.29 (BSC)		
E	6.05	6.10	6.15
E1	5.23	5.33	5.43
L	9.84	10.04	10.24
A1	0.00	0.05	0.10
M	1.01	1.06	1.11
G	0.70	0.80	0.90
O	0°	5°	10°
Q	0°	3°	6°