

2N7105 SERIES

查询"2N7105"供应商
N-Channel Lateral DMOS FETs

Siliconix
incorporated

T-35-25

The 2N7105 Series of single-pole, single-throw analog switches is designed for high speed switching in audio, video, and high-frequency applications. These devices are designed on the Siliconix DMOS process and utilize lateral construction to achieve low capacitance and ultra-fast switching speeds. This series also feature an integrated Zener diode designed to protect the gate from electrical "spikes" or overstress.

For additional design information please see performance curves DMCB, which are located in Section 7.

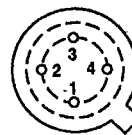
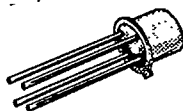
PART NUMBER	$V_{(BR)DS}$ MAX (V)	$r_{ds(ON)}$ MAX (Ω)	C_{rss} MAX (pF)	t_{ON} MAX (ns)
2N7105	10	70	0.5	2
2N7107	10	70	0.5	2
2N7109	20	70	0.5	2

SIMILAR PRODUCTS

- Quad Array, See 2N7116 Series
- SO-14 Array, See SD5400 Series
- SOT-143, See SST211 Series
- Chips, Order 2N710XCHP

TO-72

BOTTOM VIEW



- 1 SOURCE
2 DRAIN
3 GATE
4 SUBSTRATE, CASE

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETERS/TEST CONDITIONS	SYMBOL	LIMIT			UNITS
		2N7105	2N7107	2N7109	
Gate-Source, Gate-Drain Voltage	V _{GS} ,V _{GD}	-30/25	-15/25	-25/30	V
Gate-Substrate Voltage ¹	V _{GB}	-0.3/25	-0.3/25	-0.3/30	
Drain-Source Voltage	V _{DS}	30	10	20	
Source-Drain Voltage	V _{SD}	10	10	20	
Drain-Substrate Voltage	V _{DB}	30	15	25	
Source-Substrate Voltage	V _{SB}	15	15	25	
Drain Current	I _D	50	50	50	mA
Power Dissipation (T _J = 25°C)	P _D	300	300	300	mW
Power Derating		2.4	2.4	2.4	mW/°C
Operating Junction Temperature	T _J	-55 to 150			°C
Storage Temperature	T _{stg}	-65 to 200			
Lead Temperature (1/16" from case for 10 seconds)	T _L	300			

¹These devices feature an internal Zener protected gate.

