

SILICON N-CHANNEL DUAL GATE MOS-FET

Depletion type field-effect transistor in a plastic X-package with source and substrate interconnected, intended for VHF applications, such as VHF television tuners, FM tuners and professional communication equipment.

This MOS-FET tetrode is protected against excessive input voltage surges by integrated back-to-back diodes between gates and source.

QUICK REFERENCE DATA

Drain-source voltage	V_{DS}	max.	20	V
Drain current	I_D	max.	20	mA
Total power dissipation up to $T_{amb} = 75^\circ\text{C}$	P_{tot}	max.	225	mW
Junction temperature	T_j	max.	160	$^\circ\text{C}$
Transfer admittance at $f = 1$ kHz $I_D = 10$ mA; $V_{DS} = 10$ V; $+V_{G2-S} = 4$ V	y_{fs1}	typ.	14	μS
Input capacitance at gate 1; $f = 1$ MHz $I_D = 10$ mA; $V_{DS} = 10$ V; $+V_{G2-S} = 4$ V	C_{ig1-s}	typ.	2.1	PF
Feedback capacitance at $f = 1$ MHz $I_D = 10$ mA; $V_{DS} = 10$ V; $+V_{G2-S} = 4$ V	C_{rs}	typ.	20	fF
Noise figure at optimum source admittance $I_D = 10$ mA; $V_{DS} = 10$ V; $+V_{G2-S} = 4$ V; $f = 200$ MHz	F	typ.	0.7	dB

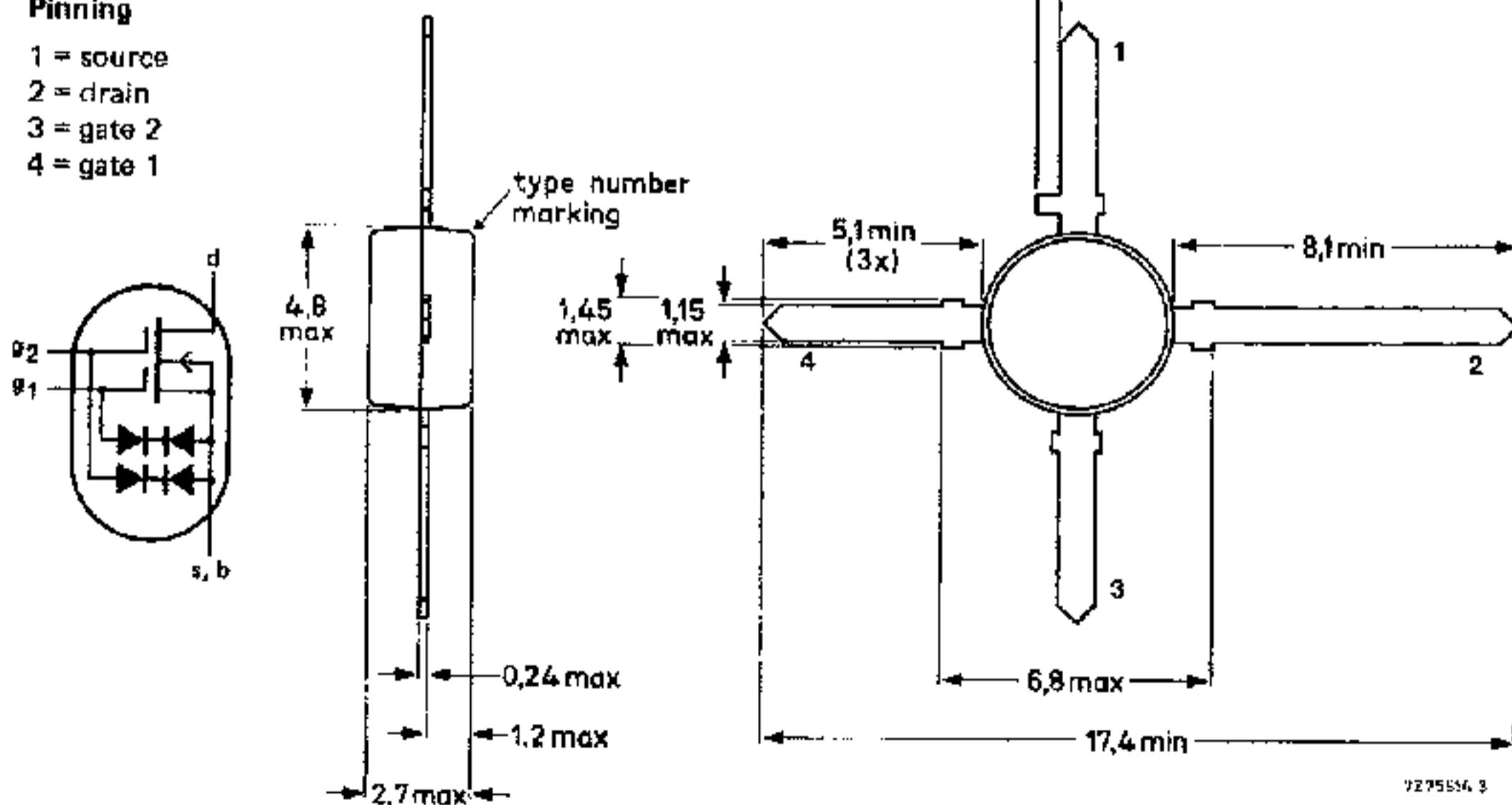
MECHANICAL DATA

Fig.1 SOT103.

Dimensions in mm

Pinning

- 1 = source
- 2 = drain
- 3 = gate 2
- 4 = gate 1



7275564.3