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SILICON N-CHANNEL DUAL GATE MOS-FET

Depletion type field-effect transistor in a plastic X-package with source and substrate interconnected, intended for use in u.h.f. applications in television 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 °C	P_{tot}	max.	225 mW
Junction temperature	T_j	max.	150 °C
Transfer admittance at f = 1 kHz I_D = 7 mA; V_{DS} = 10 V; + $V_{G2\text{-}S}$ = 4 V	$\lvert y_{fs} \rvert$	typ.	12 mS
Input capacitance at gate 1; f = 1 MHz I_D = 7 mA; V_{DS} = 10 V; + $V_{G2\text{-}S}$ = 4 V	$C_{ig1\text{-}s}$	typ.	1.8 pF
Feedback capacitance at f = 1 MHz I_D = 7 mA; V_{DS} = 10 V; + $V_{G2\text{-}S}$ = 4 V	C_{rs}	typ.	25 fF
Noise figure at G_S = 2 mS; B_S = B_S opt I_D = 7 mA; V_{DS} = 10 V; + $V_{G2\text{-}S}$ = 4 V; f = 800 MHz	F	typ.	2.8 dB

MECHANICAL DATA

Fig.1 SOT103.

Dimensions in mm

Pinning:

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