

SILICON MOS N-CHANNEL POWER TRANSISTOR 60 W, up to 230 MHz, Enhancement Mode

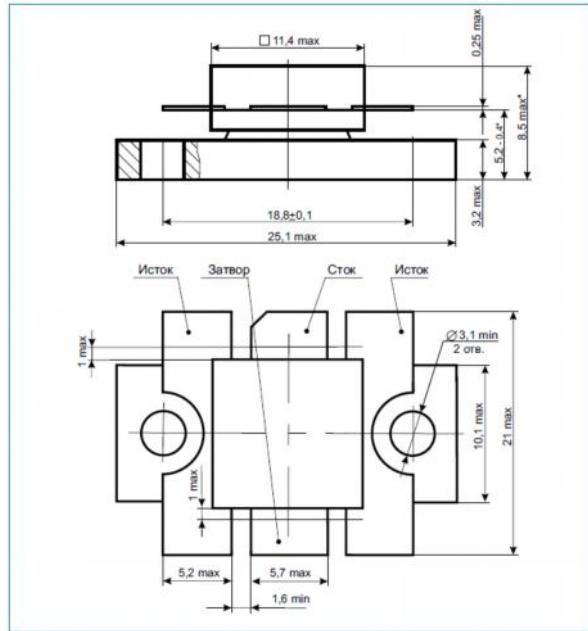
The silicon MOS transistor is designed for professional transmitter applications in the HF/VHF frequency range.

Features:

- Performance at 230 MHz, 28 Vdc
- Power Gain: 14 dB Min
- Output Power: 60 W
- Efficiency: 50 % Min

Absolute Maximum Ratings

Parameters	Sym	Value	Unit
Drain-Source Voltage	V _{DSS}	65	V _{DC}
Drain Current-Continuous	I _D	6	A _{DC}
Gate-Source Voltage	V _{GS}	±20	V _{DC}
Operation Junction Temperature	T _j	-65 ÷ +200	°C
Storage Temperature Range	T _{STG}	-65 ÷ +150	°C
Thermal Resistance, Junction to Case	R _{θJC}	1.45	°C/W
Total Power Dissipation	P _D	120	W



Case KT-56

Parameters

Parameter	Symbol	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage (I _{DS} =20 mA, V _{GS} =0 V)	V _{(BR)DSS}	65	—	—	V _{DC}
Gate-Source Leakage Current (V _{GS} =20 V, V _{DS} =0 V)	I _{GSS}	—	—	1	μA _{DC}
Zero Gate Voltage Drain Leakage Current (V _{DS} = 28 V, V _{GS} =0 V)	I _{DSS}	—	—	6	mA _{DC}
Gate Threshold Voltage (V _{DS} = 10 V, I _D = 50mA)	V _{GS(TH)}	2	—	5	V _{DC}
Forward Transconductance (V _{DS} = 10 V, I _D = 3 A)	G _{FS}	2	2.2	—	mhos
Input Capacitance (V _{DS} = 28 V, V _{GS} =0 V, f = 1 MHz)	C _{ISS}	—	100	—	pF
Output Capacitance (V _{DS} = 28 V, V _{GS} =0 V, f = 1 MHz)	C _{OSS}	—	90	—	pF
Reverse Transfer Capacitance (V _{DS} = 28 V, V _{GS} =0 V, f = 1 MHz)	C _{RSS}	—	9	—	pF
Power Gain (V _{DS} = 28 V, P _{OUT} = 60 W, I _{DQ} = 100 mA, f = 230 MHz)	G _p	14	15	—	dB
Drain Efficiency (V _{DS} = 28 V, P _{OUT} = 60 W, I _{DQ} = 100 mA, f = 230 MHz)	η _D	50	60	—	%

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Specification is subject to change without notice