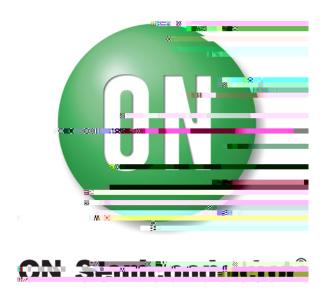


Is Now Part of





BSR56

N-Channel JFET Low-Frequency Low-Noise Amplifier

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{DGO}	Drain-Gate Voltage	40	V
V _{GSO}	Gate-Source Voltage	- 40	V
I _{GF}	Forward Gate Current	50	mA
P _{tot}	Total Power Dissipation up to T _{amb} =40°C	250	mW
T _{STG}	Storage Temperature Range	- 55 ~ 150	°C
T _J	Junction Temperature	150	°C

Electrical Characteristics $\rm T_{C} = 25\,^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{GSS}	Gate-Source Voltage	$V_{DS} = 0V, I_{C} = 1\mu A$	40			V
I _{GSS}	Gate Reverse Current	V _{GS} = 20V			1	nA
I _{DSS}	Zero-Gate Voltage Drain Current	V _{DS} = 15V, V _{GS} = 0V	50			mA
V _{GS} (off)	Gate-Source Cut-off Voltage	V _{DS} = 15V, I _D = 0.5nA	4		10	V
V _{DS} (on)	Drain-Source On Voltage	$V_{GS} = 0V$, $I_D = 20mA$			750	mV
r _{ds} (on)	Drain-Source On Reverse	$V_{GS} = 0V, I_{D} = 0$			25	Ω
C _{rss}	Reverse Transfer Capacitance	V _{DS} = 10V, V _{GS} = 0V			5	pF
t _d	Delay Time	$V_{DD} = 10V, V_{GS}(on) = 0V$			6	nS
t _r	Rise Time	$I_D = 20 \text{mA}, V_{GS}(\text{off}) = 10 \text{V}$			3	nS
t _{off}	Turn-off Time				25	nS

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date.
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