Product Overview

NSVF4020SG4: RF Transistor for Low Noise Amplifier

For complete documentation, see the data sheet.

This RF transistor is designed for low noise amplifier applications. MCPH package is suitable for use under high temperature environment because it has superior heat radiation characteristics. This RF transistor is AEC-Q101 qualified and PPAP capable for automotive applications.

Features

- Low-noise use : NF = 1.2 dB (typ) [f = 1 GHz]
- High cut-off frequency : fT = 16 GHz (typ) [VCE = 5 V]
- High gain : $|S21e|^2$ = 17.5 dB (typ) [f = 1 GHz]
- AEC-Q101 qualified and PPAP capable
- Pb-Free, Halogen Free and RoHS compliance
- MCPH4 package is pin-compatible with SC-82FL

Benefits

- Realize the clear signal amplification
- Aveirable for high frequency application
- Useful for the reception of the small signal
- Suitable for automotive applications
- Environmental consideration

Applications

- Low Noise Amplifier

End Products

- Satellite Radios
- ITS with 700 MHz
- FM Radio Antenna
- Remote Keyless Entry System

Part Electrical Specifications

Product	Compliance	Status	Polarity	I_C Continuous (A)	$V_{CEO(sus)}$ Min (V)	h_{FE} Min	h_{FE} Max	P_{TM} Max (W)	f_T Min (MHz)	NF Typ. (dB)	|S21e| 2 Typ. (dB)	Package Type
NSVF4020SG4T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	NPN	0.15	8	60	150	0.4	13000	1.2	17.5	SC 82FL / MCPH4

For more information please contact your local sales support at www.onsemi.com.

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