imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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N-Channel JFET 15V, 10 to 32mA, 35mS

Automotive JFET designed for compact and efficient designs and including high gain performance. AEC-Q101 qualified JFET and PPAP capable suitable for automotive applications.

Features

- Large | yfs |
- Small Ciss
- This small package enables sets to be smaller and thinner
- Ultralow noise figure
- Pb-Free and RoHS compliance
- AEC-Q101 qualified and PPAP capable

Typical Applications

- AM Tuner RF Amplifier
- Low Noise Amplifier

SPECIFICATIONS

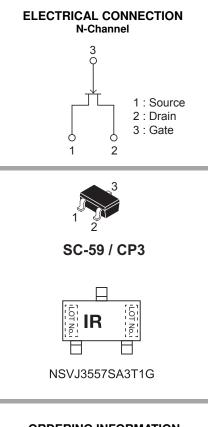
ABSOLUTE MAXIMUM RATINGS at Ta = 25°C (Note 1)

| Parameter | Symbol | Value | Unit |
|---|----------------------------------|------------|------|
| Drain-to-Source Voltage | V _{DSX} | 15 | V |
| Gate-to-Drain Voltage | V _{GDS} | -15 | V |
| Gate Current | IG | 10 | mA |
| Drain Current | ۱ _D | 50 | mA |
| Allowable Power Dissipation | PD | 200 | mW |
| Operating Junction and Storage Temperature | T _{J,} T _{Stg} | -55 to+150 | °C |

Note 1 : Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



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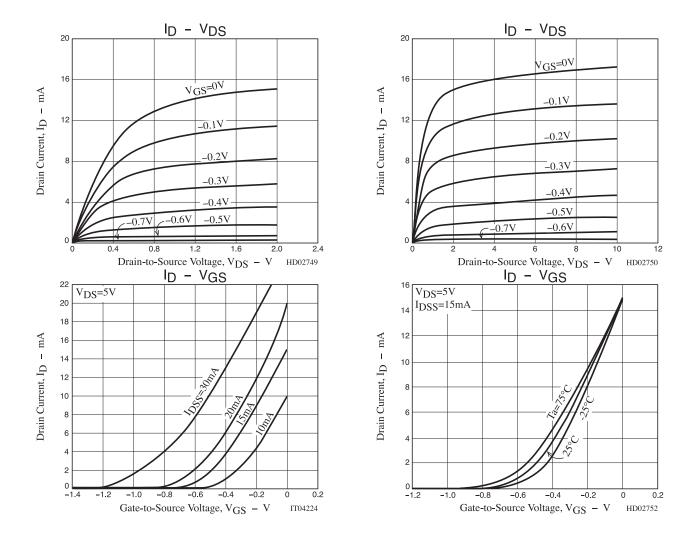
ORDERING INFORMATION

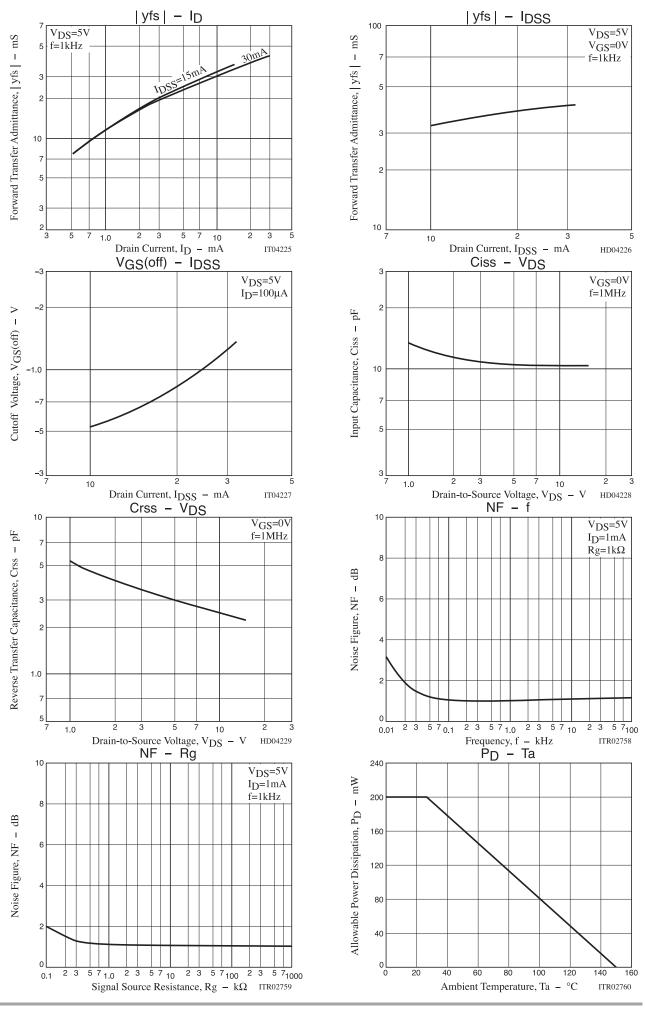
See detailed ordering and shipping information on page 5 of this data sheet

ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

| Deremeter | Symbol | Conditions | Value | | | Unit | |
|---------------------------------|-----------------------|---|-------|------|------|------|--|
| Parameter | Symbol | Conditions | min | typ | max | Unit | |
| Gate-to-Drain Breakdown Voltage | V _(BR) GDS | $I_{G} = -10\mu A, V_{DS} = 0V$ | -15 | | | V | |
| Gate Cutoff Current | IGSS | $V_{GS} = -10V, V_{DS} = 0V$ | | | -1 | nA | |
| Cutoff Voltage | V _{GS(off)} | V _{DS} = 5V, I _D = 100μA | -0.3 | -0.7 | -1.5 | V | |
| Drain Current | IDSS | V _{DS} = 5V, V _{GS} = 0V | 10 | | 32 | mA | |
| Forward Transfer Admittance | yfs | V _{DS} = 5V, V _{GS} = 0V, f = 1kHz | 24 | 35 | | mS | |
| Input Capacitance | Ciss | V _{DS} = 5V, V _{GS} = 0V, f = 1MHz | | 10 | | pF | |
| Reverse Transfer Capacitance | Crss | VDS - 3V, VGS - 3V, I - 10012 | | 2.9 | | pF | |
| Noise Figure | NF | V_{DS} = 5V, Rg=1k Ω , I _D =1mA, f=1kHz | | 1 | | dB | |

Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



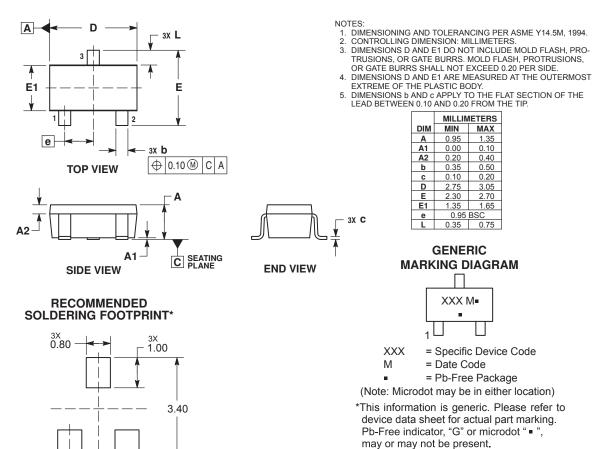


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PACKAGE DIMENSIONS

unit : mm

SC-59 / CP3 CASE 318BJ ISSUE O



0.95 H

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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ORDERING INFORMATION

| Device | Marking | Package | Shipping |
|----------------|---------|---------------------------------|---------------------|
| NSVJ3557SA3T1G | IR | SC-59 3-Lead / CP3 (Pb-Free) | 3,000 / Tape & Reel |

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF

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