

Transistors

●Absolute maximum ratings (Ta=25°C)

Di1

| Parameter | Symbol | Limits | Unit |
|---------------------------------------|------------------|--------|------|
| Average rectified forward current | I _o | 200 | mA |
| Forward current surge peak (60Hz, 1↔) | I _{FSM} | 1 | A |
| Reverse voltage (DC) | V _R | 30 | V |
| Junction temperature | T _j | 125 | °C |

DTr2

| Parameter | Symbol | Limits | Unit |
|----------------------|-----------------------|--------|------|
| Supply voltage | V _{CC} | 50 | V |
| Input voltage | V _{IN} | 12 | V |
| | | -5 | |
| Output current | I _o | 100 | mA |
| | I _{C (MAX.)} | 100 | mA |
| Power dissipation | P _d | 120 | mW * |
| Junction temperature | T _j | 150 | °C |

* Each terminal mounted on a recommended.

Di1 / DTr2

| Parameter | Symbol | Limits | Unit |
|---------------------|------------------|-------------|------|
| Power dissipation | P _d | 150 | mW * |
| Storage temperature | T _{stg} | -55 to +125 | °C |

* Each terminal mounted on a recommended.

●Electrical characteristics (Ta=25°C)

Di1

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------------|------|------|------|------|-----------------------|
| Forward voltage | V _F | - | 0.40 | 0.50 | V | I _F =200mA |
| Reverse current | I _R | - | 4.0 | 30 | μA | V _R =10V |

DTr2

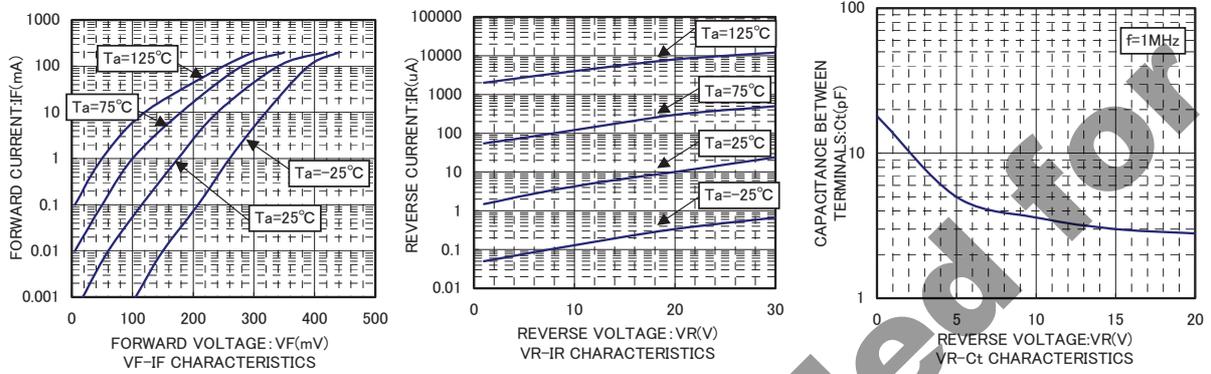
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|----------------------|--------------------------------|------|------|------|------|---|
| Input voltage | V _{I(off)} | - | - | 0.5 | V | V _{CC} =5V / I _o =100μA |
| | V _{I(on)} | 1.1 | - | - | V | V _o =0.3V / I _o =5mA |
| Output voltage | V _{O(on)} | - | 100 | 300 | mV | I _o =5mA, I _i =0.25mA |
| Input current | I _I | - | - | 3.6 | mA | V _I =5V |
| Output current | I _{O(off)} | - | - | 500 | nA | V _{CC} =50V / V _I =0V |
| DC current gain | G _I | 80 | - | - | - | V _o =5V / I _o =10mA |
| Transition frequency | f _T | - | 250 | - | MHz | V _{CE} =10V / I _E =-5mA, f=100MHz |
| Input resistance | R ₁ | 1.54 | 2.2 | 2.86 | kΩ | - |
| Resistance ratio | R ₂ /R ₁ | 17 | 21 | 26 | - | - |

* Characteristics of built-in transistor.

Transistors

●Electrical characteristic curves

Di1



DTr2

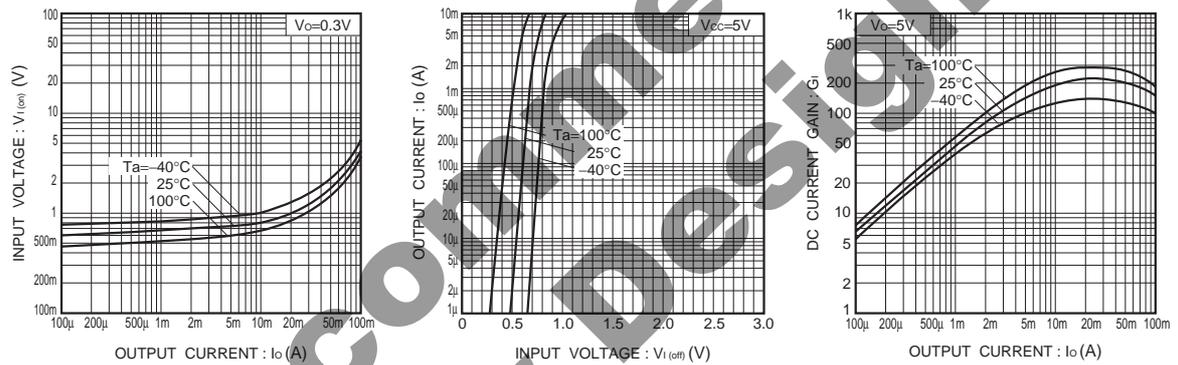


Fig.1 Input voltage vs. output current (ON characteristics)

Fig.2 Output current vs. input voltage (OFF characteristics)

Fig.3 DC current gain vs. output current

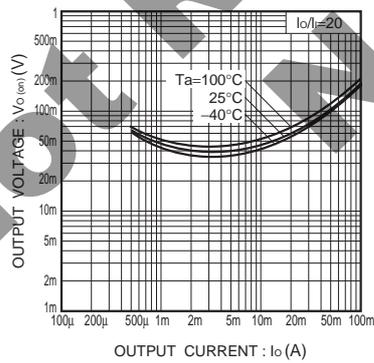


Fig.4 Output voltage vs. output current

Notes

- No technical content pages of this document may be reproduced in any form or transmitted by any means without prior permission of ROHM CO.,LTD.
- The contents described herein are subject to change without notice. The specifications for the product described in this document are for reference only. Upon actual use, therefore, please request that specifications to be separately delivered.
- Application circuit diagrams and circuit constants contained herein are shown as examples of standard use and operation. Please pay careful attention to the peripheral conditions when designing circuits and deciding upon circuit constants in the set.
- Any data, including, but not limited to application circuit diagrams information, described herein are intended only as illustrations of such devices and not as the specifications for such devices. ROHM CO.,LTD. disclaims any warranty that any use of such devices shall be free from infringement of any third party's intellectual property rights or other proprietary rights, and further, assumes no liability of whatsoever nature in the event of any such infringement, or arising from or connected with or related to the use of such devices.
- Upon the sale of any such devices, other than for buyer's right to use such devices itself, resell or otherwise dispose of the same, no express or implied right or license to practice or commercially exploit any intellectual property rights or other proprietary rights owned or controlled by
- ROHM CO., LTD. is granted to any such buyer.
- Products listed in this document are no antiradiation design.

The products listed in this document are designed to be used with ordinary electronic equipment or devices (such as audio visual equipment, office-automation equipment, communications devices, electrical appliances and electronic toys).

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

About Export Control Order in Japan

Products described herein are the objects of controlled goods in Annex 1 (Item 16) of Export Trade Control Order in Japan.

In case of export from Japan, please confirm if it applies to "objective" criteria or an "informed" (by MITI clause) on the basis of "catch all controls for Non-Proliferation of Weapons of Mass Destruction.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ROHM Semiconductor:](#)

[EML20T2R](#)



Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331