

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number:	2SK11030QL
Manufacturer:	Panasonic Electronic Components
Package:	TO-236-3, SC-59, SOT-23-3
Availability:	Please confirm with sales

Product Page:

<https://antrexco.com/product/details/panasonic-electronic-components/2sk11030ql.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

2SK1103

Silicon N-channel junction FET

For switching circuits

Complementary to 2SJ0163

■ Features

- Low ON resistance
- Low-noise characteristics

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Gate-drain surrender voltage	V_{GDS}	-65	V
Drain current	I_{D}	20	mA
Gate current	I_{G}	10	mA
Power dissipation	P_{D}	150	mW
Channel temperature	T_{ch}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

■ Package

- Code
Mini3-G1
- Pin Name
 - 1: Source
 - 2: Drain
 - 3: Gate

■ Marking Symbol: 4L

■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

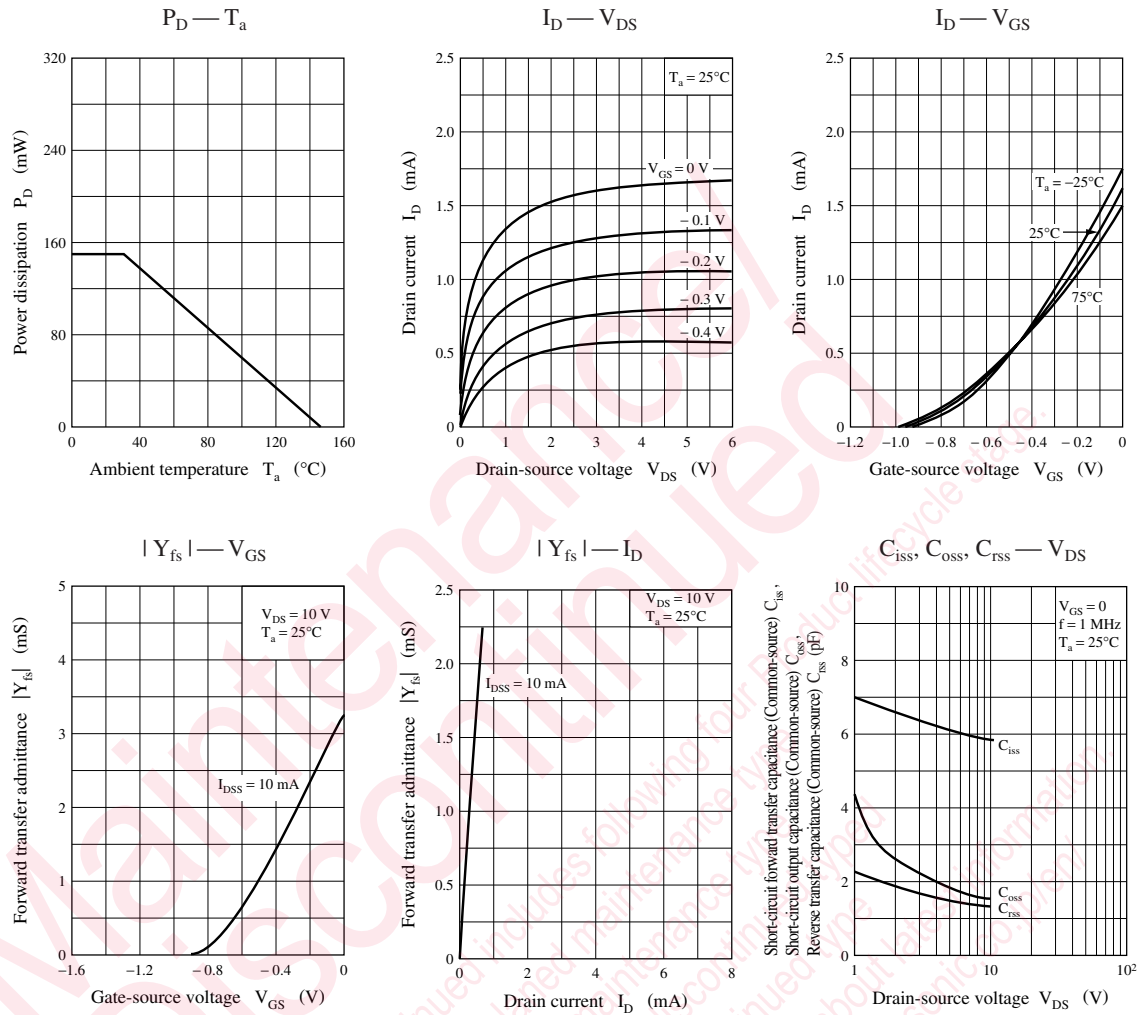
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Gate-drain surrender voltage	V_{GDS}	$I_{\text{G}} = -10 \mu\text{A}$, $V_{\text{DS}} = 0$	-65			V
Drain-source current *	I_{DSS}	$V_{\text{DS}} = 10 \text{ V}$, $V_{\text{GS}} = 0$	0.6		6.0	mA
Gate-source cutoff current	I_{GSS}	$V_{\text{GS}} = -30 \text{ V}$, $V_{\text{DS}} = 0$			-10	nA
Gate-source cutoff voltage	V_{GSC}	$V_{\text{DS}} = 10 \text{ V}$, $I_{\text{D}} = 10 \mu\text{A}$		-1.5	-3.5	V
Forward transfer admittance	$ Y_{\text{fs}} $	$V_{\text{DS}} = 10 \text{ V}$, $I_{\text{D}} = 1 \text{ mA}$, $f = 1 \text{ kHz}$	1.8	2.5		mS
Drain-source ON resistance	$R_{\text{DS(on)}}$	$V_{\text{DS}} = 10 \text{ mV}$, $V_{\text{GS}} = 0$		300		Ω
Short-circuit forward transfer capacitance (Common source)	C_{iss}	$V_{\text{DS}} = 10 \text{ V}$, $V_{\text{GS}} = 0$, $f = 1 \text{ MHz}$		7		pF
Reverse transfer capacitance (Common source)	C_{rss}			1.5		pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. Observe precautions for handling. Electrostatic sensitive devices.

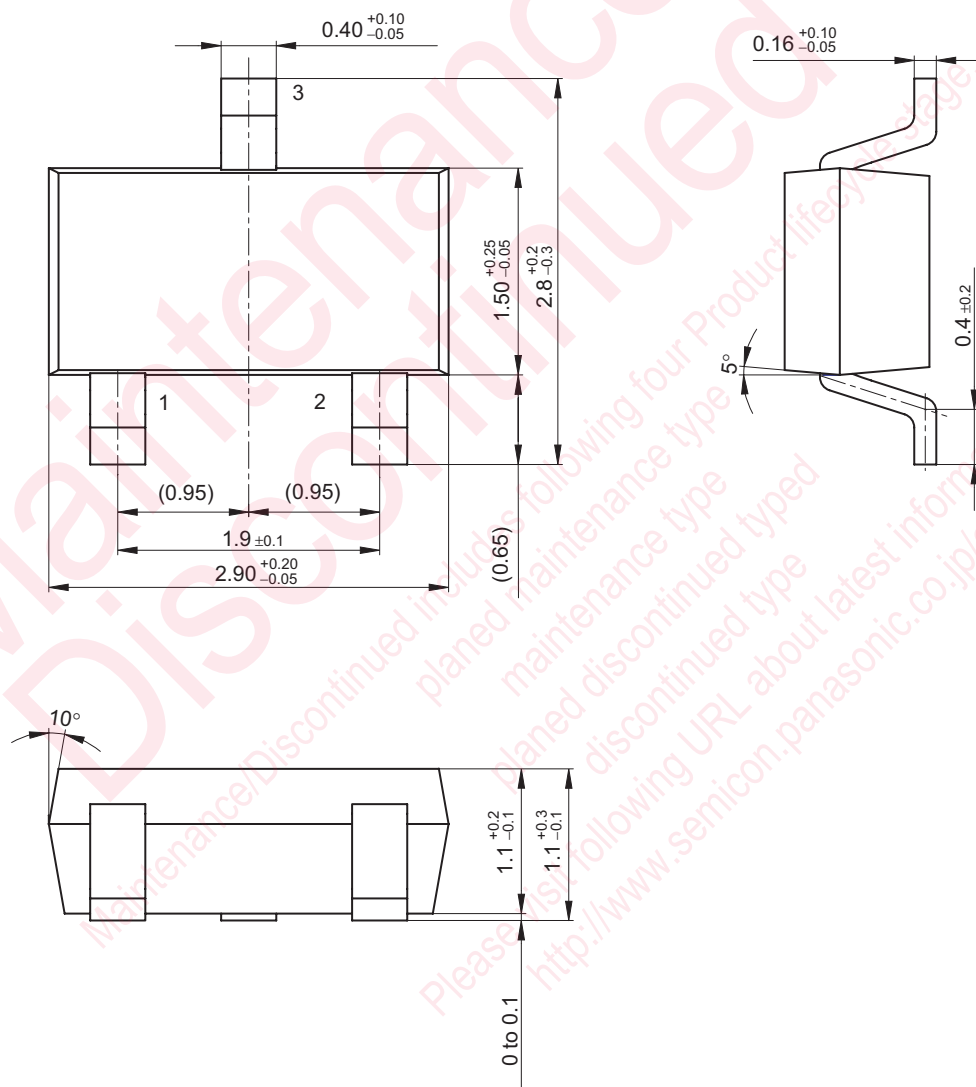
3. *: Rank classification

Rank	P	Q	R
I_{DSS} (mA)	0.6 to 1.5	1.0 to 3.0	2.5 to 6.0



Mini3-G1

Unit: mm



Request for your special attention and precautions in using the technical information and semiconductors described in this book

- (1) If any of the products or technical information described in this book is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially, those with regard to security export control, must be observed.
- (2) The technical information described in this book is intended only to show the main characteristics and application circuit examples of the products, and no license is granted under any intellectual property right or other right owned by our company or any other company. Therefore, no responsibility is assumed by our company as to the infringement upon any such right owned by any other company which may arise as a result of the use of technical information described in this book.
- (3) The products described in this book are intended to be used for standard applications or general electronic equipment (such as office equipment, communications equipment, measuring instruments and household appliances).
Consult our sales staff in advance for information on the following applications:
 - Special applications (such as for airplanes, aerospace, automobiles, traffic control equipment, combustion equipment, life support systems and safety devices) in which exceptional quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or harm the human body.
 - Any applications other than the standard applications intended.
- (4) The products and product specifications described in this book are subject to change without notice for modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.
- (5) When designing your equipment, comply with the range of absolute maximum rating and the guaranteed operating conditions (operating power supply voltage and operating environment etc.). Especially, please be careful not to exceed the range of absolute maximum rating on the transient state, such as power-on, power-off and mode-switching. Otherwise, we will not be liable for any defect which may arise later in your equipment.
 - ☐ Even when the products are used within the guaranteed values, take into the consideration of incidence of break down and failure mode, possible to occur to semiconductor products. Measures on the systems such as redundant design, arresting the spread of fire or preventing glitch are recommended in order to prevent physical injury, fire, social damages, for example, by using the products.
- (6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.
- (7) This book may be not reprinted or reproduced whether wholly or partially, without the prior written permission of Matsushita Electric Industrial Co., Ltd.