

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 2SK3738-TL-E
Manufacturer: onsemi
Package: SC-75, SOT-416
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/onsemi/2sk3738-tl-e.html>

Request a Quote:

[Submit RFQ for this part](#)



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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.



ON Semiconductor®

<http://onsemi.com>

2SK3738

N-Channel JFET 40V, 50 to 130 μ A, 0.13mS, SMCP

Applications

- Impedance conversion
- Infrared sensor

Features

- Small IGSS
- Small Ciss
- Ultrasmall package permitting applied sets to be small and slim

Specifications

Absolute Maximum Ratings at Ta=25°C

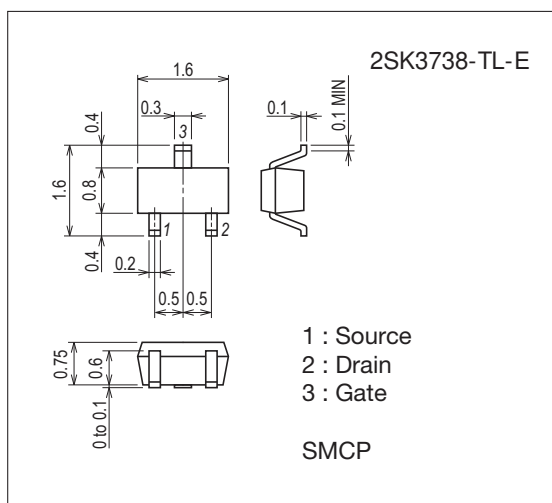
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		40	V
Gate-to-Drain Voltage	VGDS		-40	V
Gate Current	IG		10	mA
Drain Current	ID		1	mA
Allowable Power Dissipation	PD		100	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ)

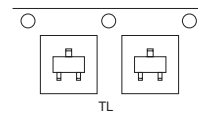
7027A-003



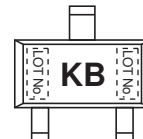
Product & Package Information

- Package : SMCP
- JEITA, JEDEC : SC-75, SOT-416
- Minimum Packing Quantity : 3,000 pcs./reel

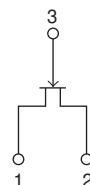
Packing Type: TL



Marking



Electrical Connection

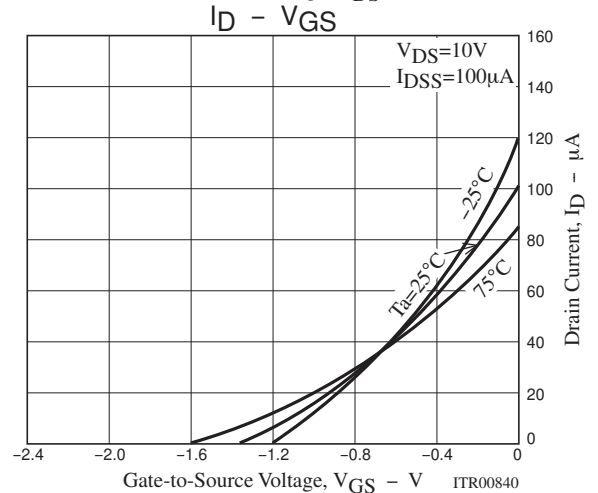
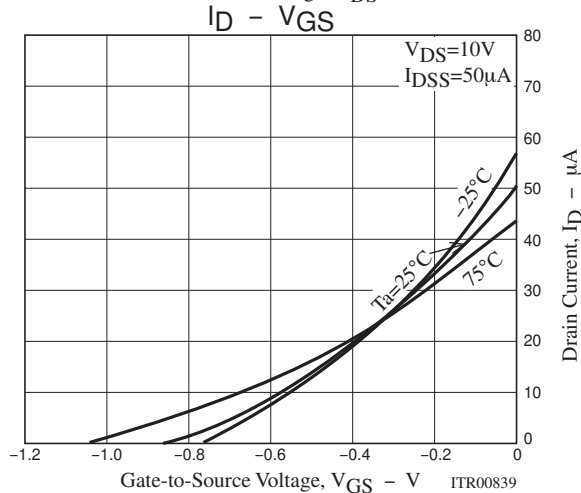
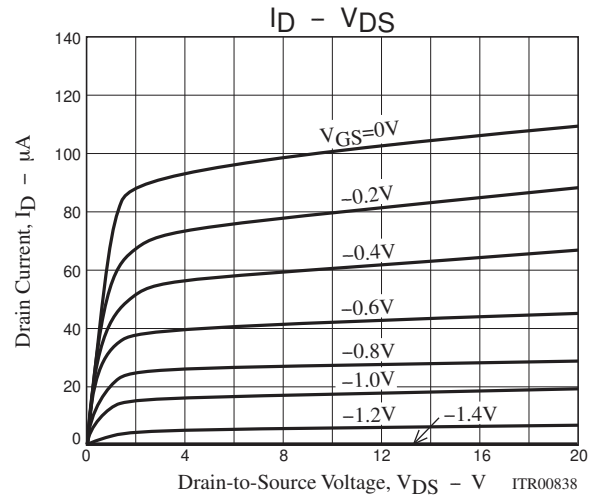
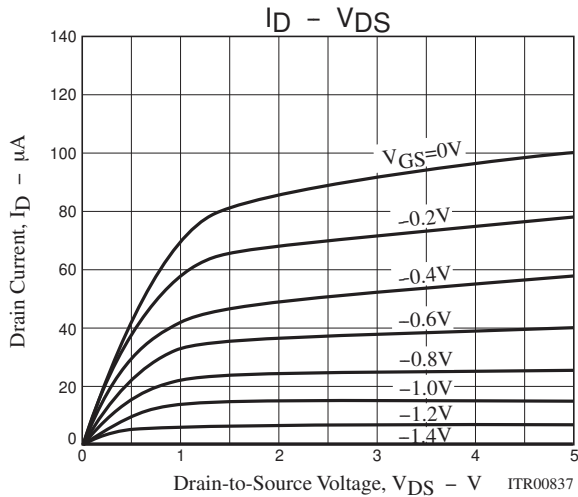


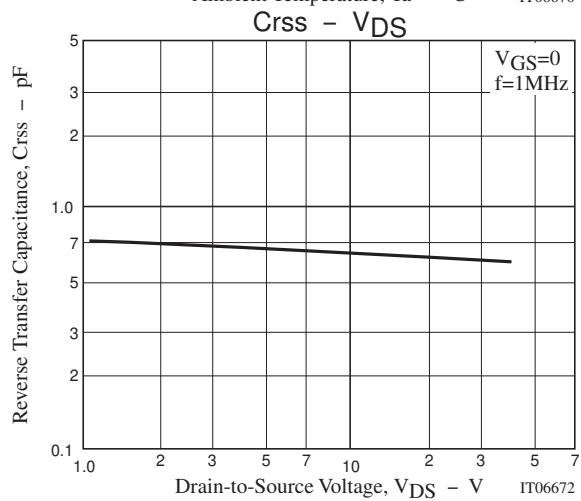
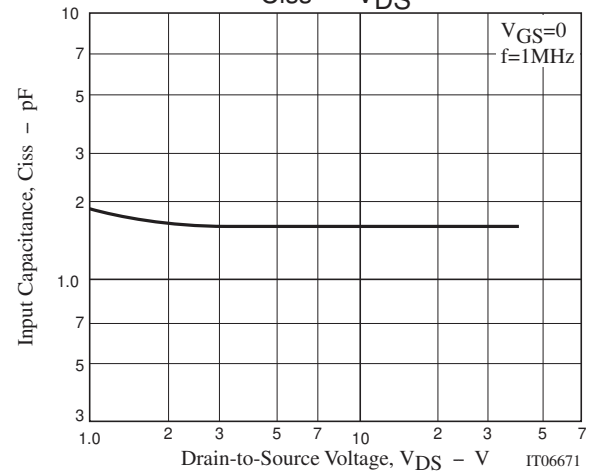
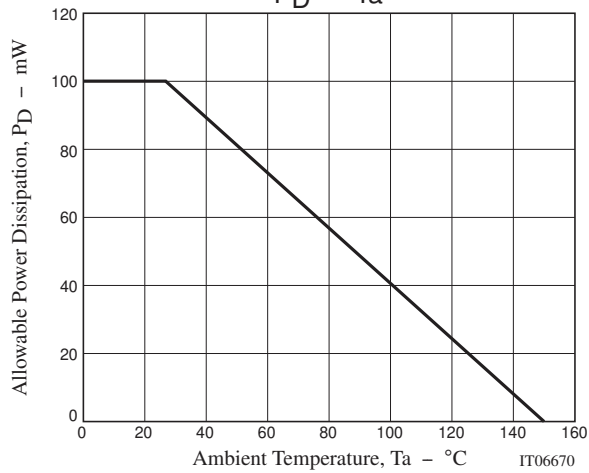
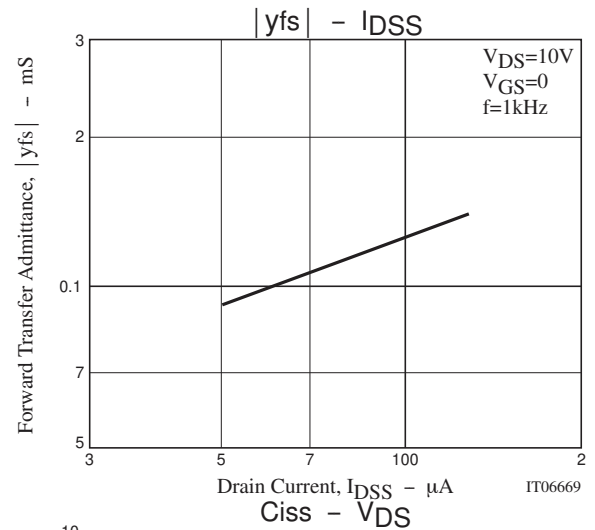
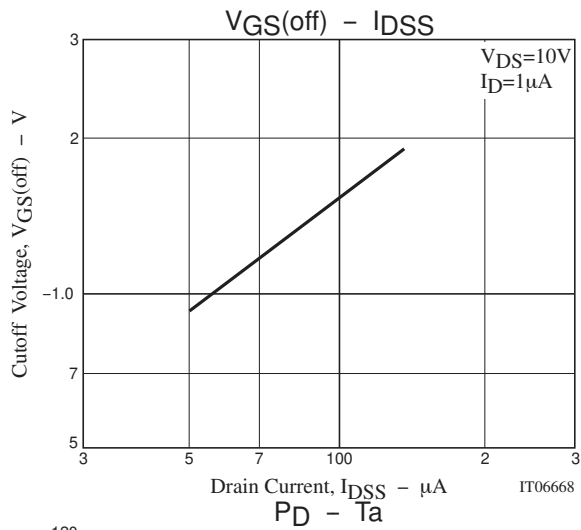
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A$, $V_{DS} = 0V$	-40			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20V$, $V_{DS} = 0V$			-500	pA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V$, $I_D = 1\mu A$		-1.5	-2.3	V
Drain Current	I_{DSS}	$V_{DS} = 10V$, $V_{GS} = 0V$	50		130	μA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 10V$, $V_{GS} = 0V$, $f = 1kHz$	0.06	0.13		mS
Input Capacitance	C_{iss}	$V_{DS} = 10V$, $V_{GS} = 0V$, $f = 1MHz$		1.7		pF
Reverse Transfer Capacitance	C_{rss}			0.7		pF

Ordering Information

Device	Package	Shipping	memo
2SK3738-TL-E	SMCP	3,000pcs./reel	Pb Free





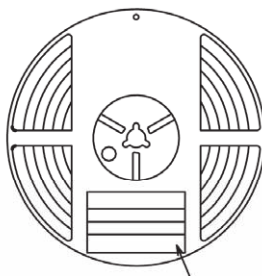
Embossed Taping Specification

2SK3738-TL-E

1. Packing Format

Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
SMCP	SMCP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Packing method



Reel label

Type No.
LOT No.
Quantity
Origin

Reel label, Inner box label
(unit:mm)

TYPE	0000000000
LOT	00
QTY	0,000 (1) LEAD FREE *
SPECIAL	*20722005310C*
ASSEMBLY	**** (DIFFUSION:****)

Outer box label

It is a label at the time of factory shipments.
The form of a label may change in physical
distribution process.

TYPE CODE	00000000000000000000
TYPE	0000000000
QTY	0,000 PCS (1) LEAD FREE *
LOT	0000000000
PACKAGE	0000000000
SPECIAL	*20722005310C*
ASSEMBLY	**** (DIFFUSION:****)

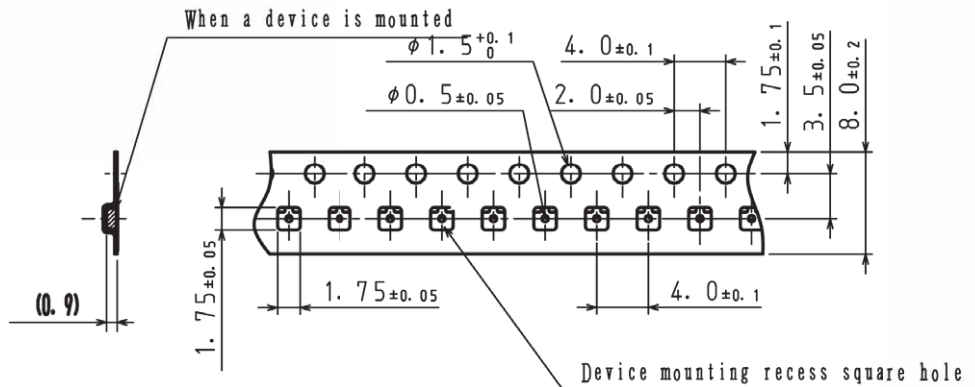
NOTE (1)

The LEAD FREE * description shows that the surface
treatment of the terminal is lead free.

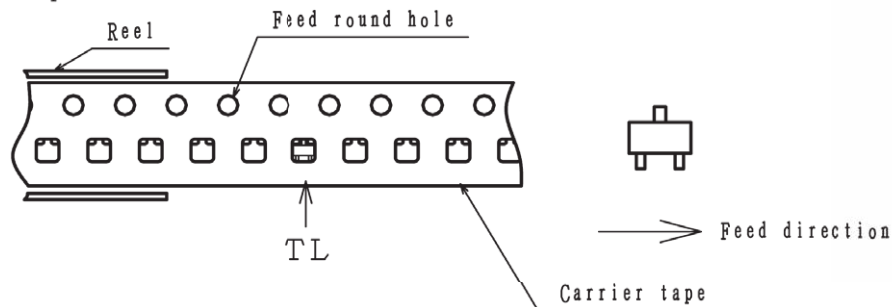
Label	JEITA Phase
.....	JEITA Phase 3

2. Taping configuration

2-1. Carrier tape size (unit:mm)

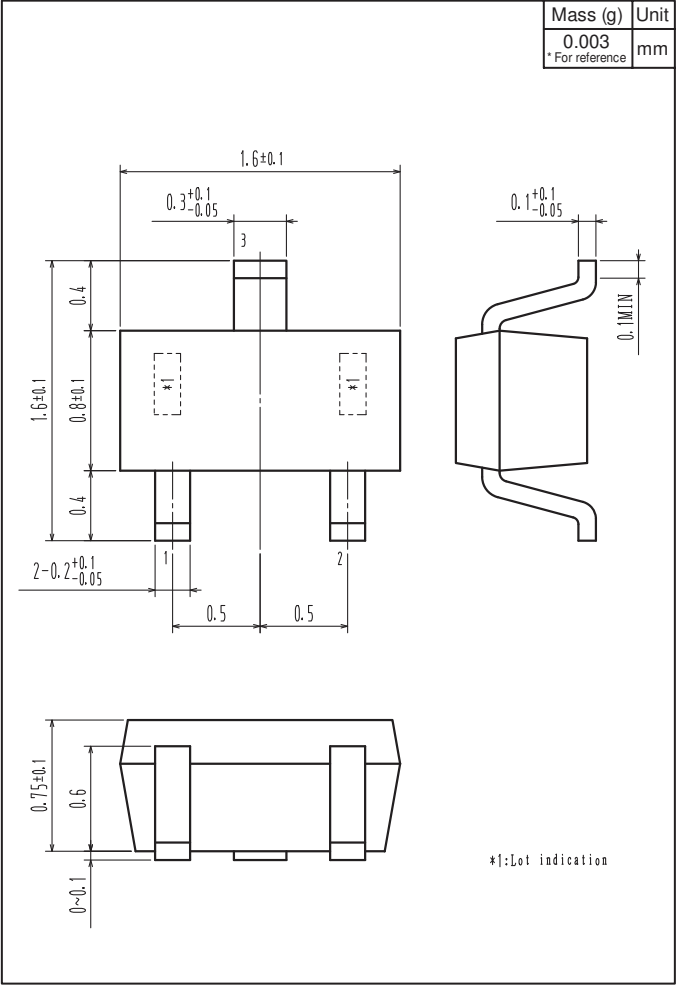


2-2. Device placement direction

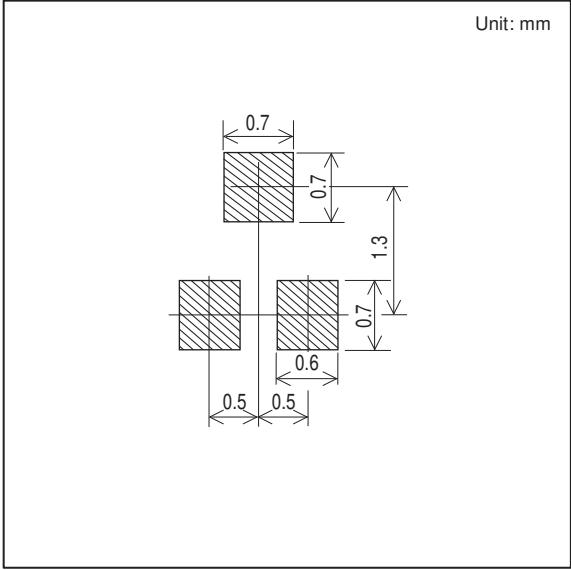


Those with one electrode terminal on the feed hole side.....TL

Outline Drawing
2SK3738-TL-E



Land Pattern Example



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