



SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

2SK545 — N-Channel Junction Silicon FET

Impedance Converter Applications

Applications

- Impedance converter applications
- Infrared sensor

Features

- Small I_{GSS}
- Small C_{iss}
- Ultrasmall package permitting 2SK545-applied sets to be compact

Specifications

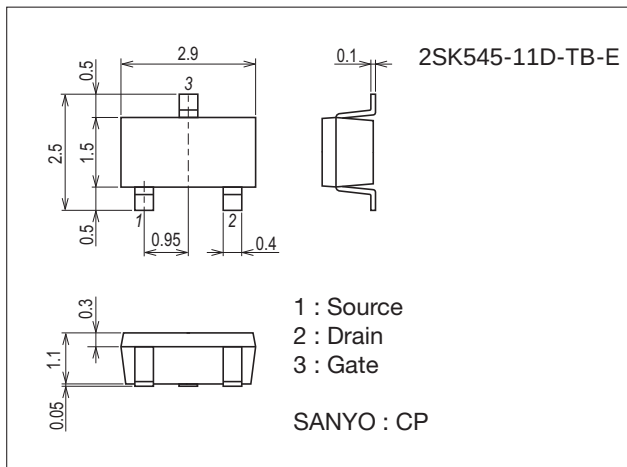
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DS}		40	V
Gate-to-Drain Voltage	V_{GDS}		-40	V
Gate Current	I_G		10	mA
Drain Current	I_D		1	mA
Allowable Power Dissipation	P_D		100	mW
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Package Dimensions

unit : mm (typ)

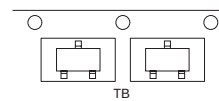
7013A-011



Product & Package Information

- Package : CP
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB
- Minimum Packing Quantity : 3,000 pcs./reel

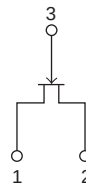
Packing Type: TB



Marking



Electrical Connection



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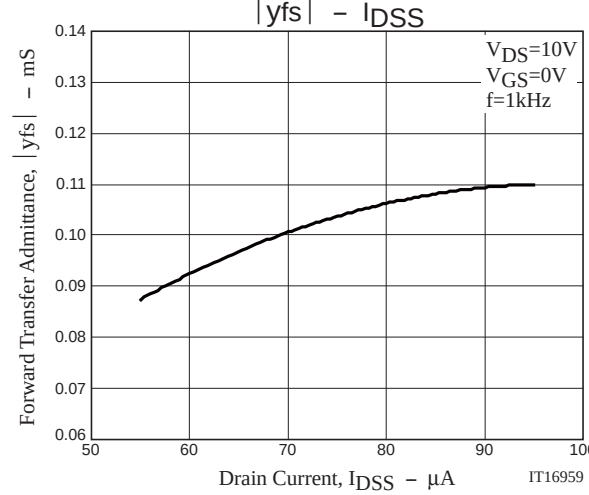
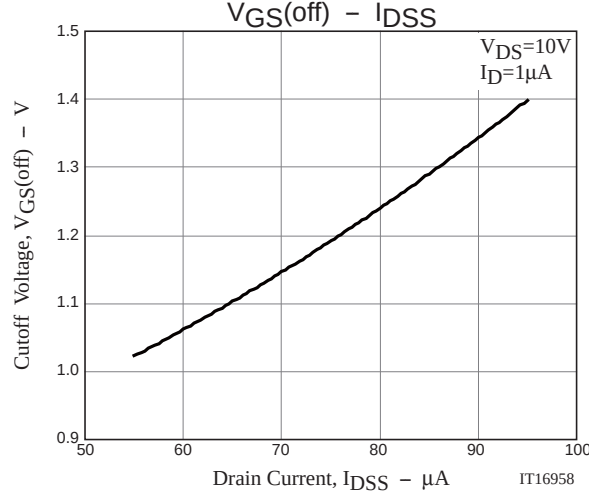
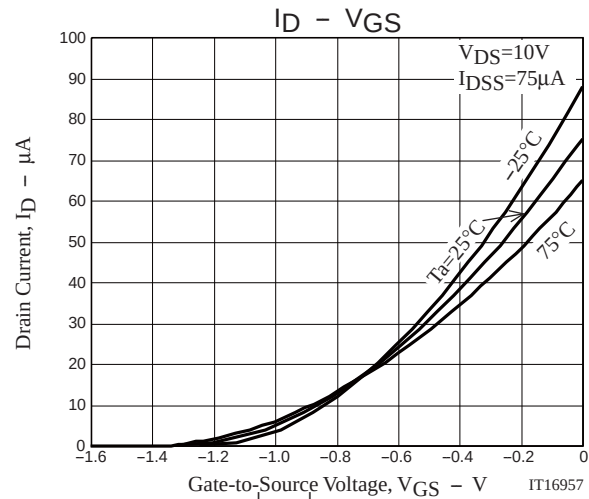
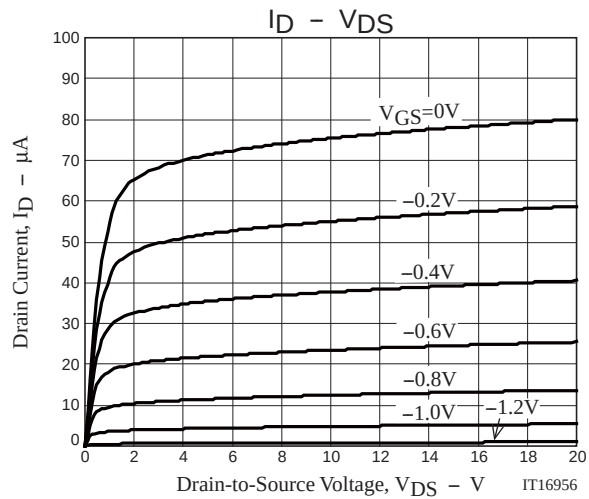
<http://www.sanyosemi.com/en/network/>

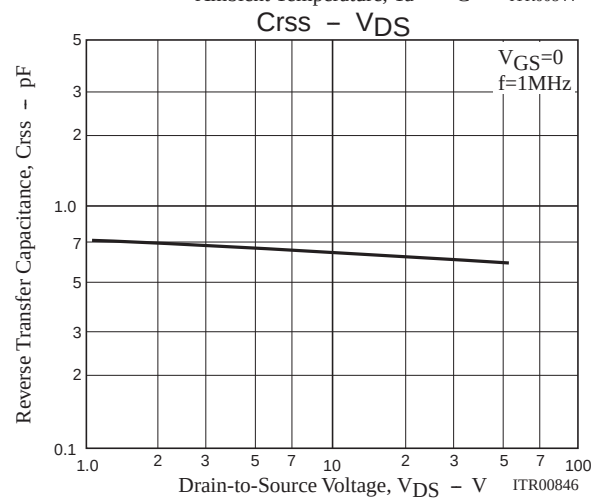
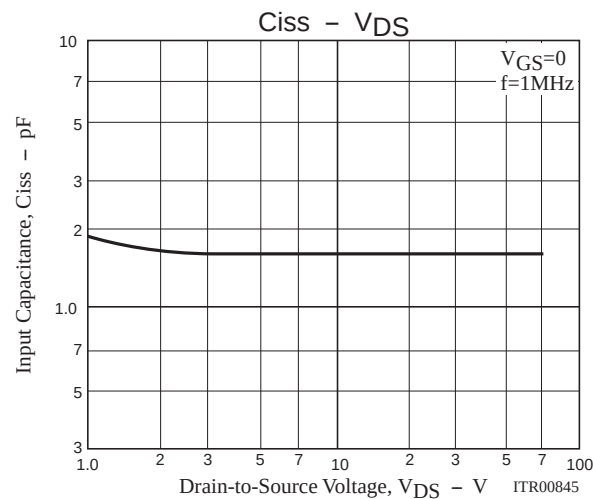
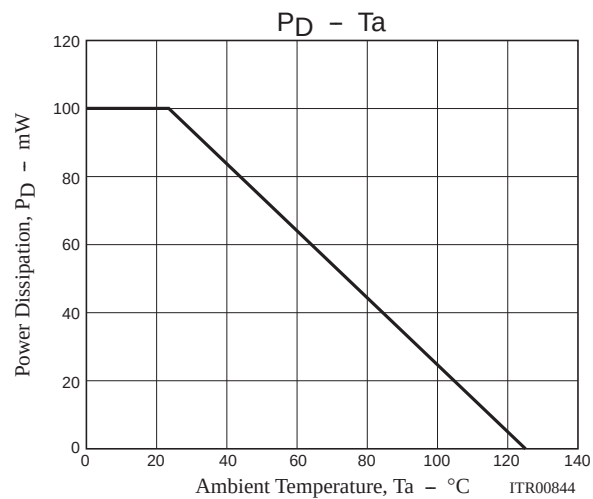
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	V(BR)GDS	ID=-10μA, VDS=0V	-40			V
Gate Cutoff Current	IGSS	VGS=-20V, VDS=0V			-500	pA
Drain Current	IDSS	VDS=10V, VGS=0V	55		95	μA
Cutoff Voltage	VGS(off)	VDS=10V, ID=1μA		-1.2	-4.0	V
Forward Transfer Admittance	yfs	VDS=10V, VGS=0V, f=1kHz	0.05	0.10		mS
Input Capacitance	Ciss	VDS=10V, VGS=0V, f=1MHz		1.7		pF
Reverse Transfer Capacitance	Crss			0.7		pF

Ordering Information

Device	Package	Shipping	memo
2SK545-11D-TB-E	CP	3,000pcs./reel	Pb Free





Embossed Taping Specification

2SK545-11D-TB-E

1. Packing Format

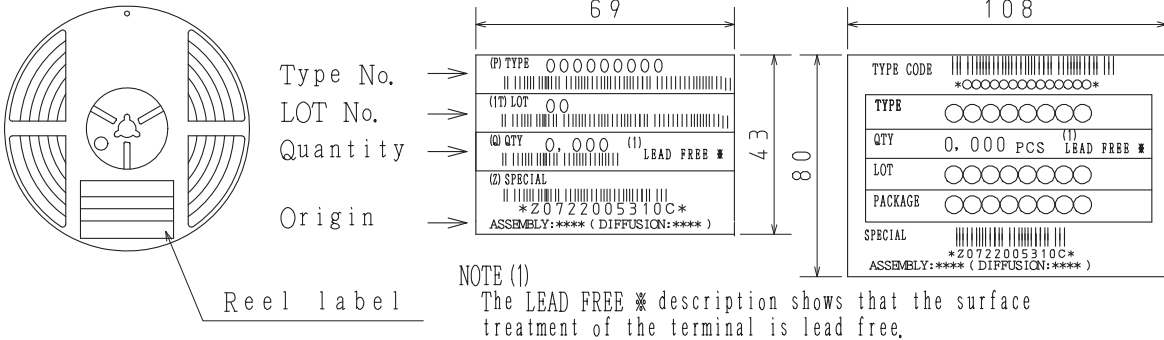
Package Name	Carrier Tape Type	Maximum Number of devices contained (pcs)			Packing format	
		Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)
CP	CP	3,000	15,000	90,000	5 reels contained Dimensions:mm (external) 183×72×185	6 inner boxes contained Dimensions:mm (external) 440×195×210

Reel label, Inner box label
(unit:mm)

Outer box label

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

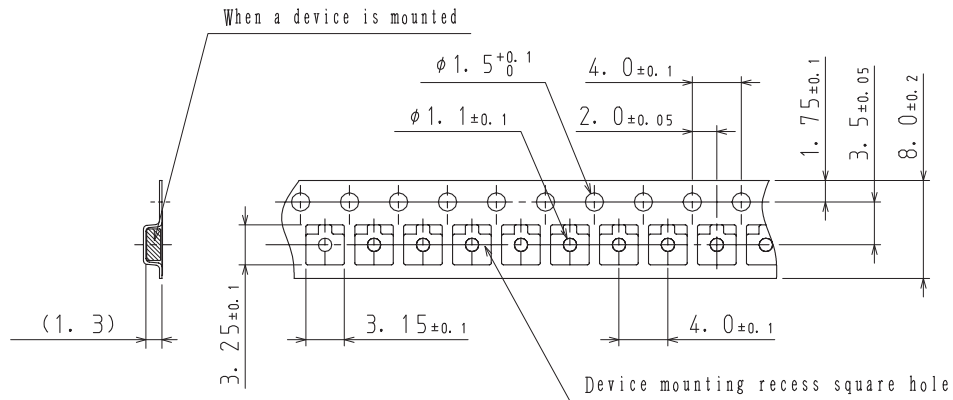
Packing method



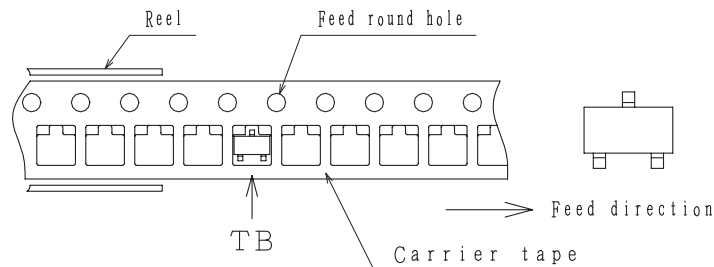
Label	JEITA Phase
LEAD FREE 3	JEITA Phase 3A
LEAD FREE 4	JEITA Phase 3

2. Taping configuration

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

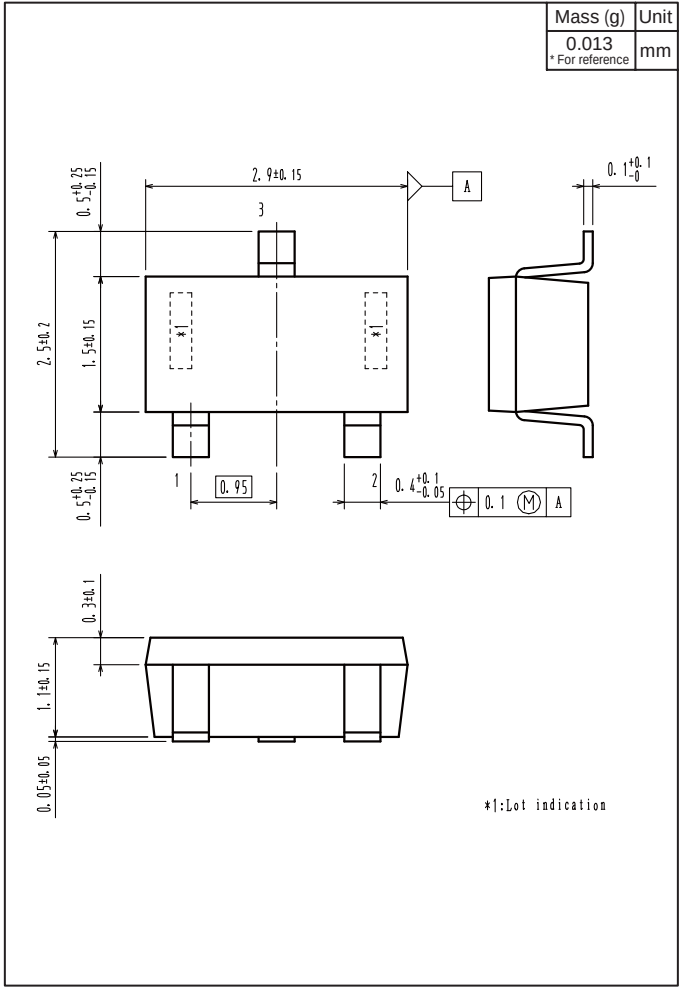


2-2. Device placement direction

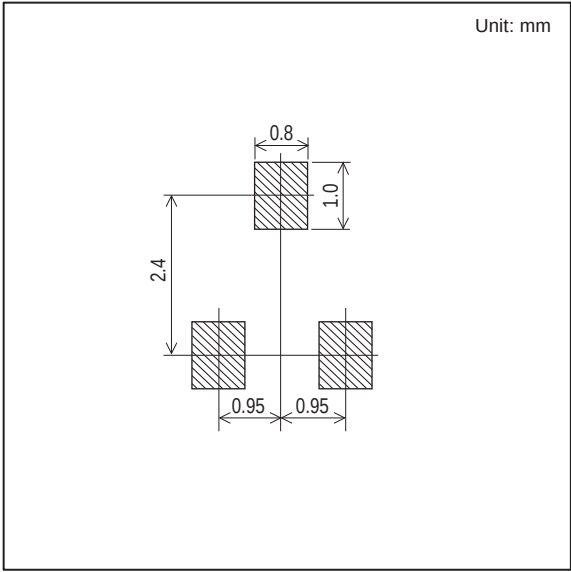


Those with one electrode terminal on the feed hole side.....TB

Outline Drawing
2SK545-11D-TB-E



Land Pattern Example



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