

2SJ160, 2SJ161, 2SJ162

Silicon P Channel MOS FET

勝 特 力 材 料 886-3-5773766 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787

Http://www.100y.com.tw

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Description

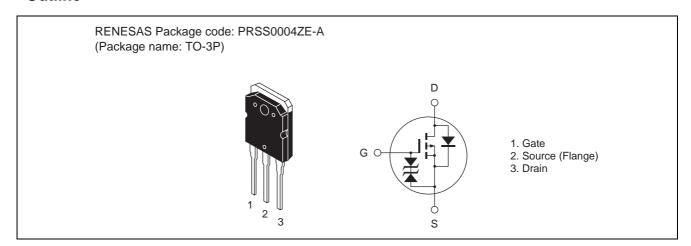
Low frequency power amplifier

Complementary pair with 2SK1056, 2SK1057 and 2SK1058

Features

- Good frequency characteristic
- High speed switching
- Wide area of safe operation
- Enhancement-mode
- Good complementary characteristics
- Equipped with gate protection diodes
- Suitable for audio power amplifier

Outline



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item		Symbol	Value	Unit	
Drain to source voltage	nin to source voltage 2SJ160		-120	V	
	2SJ161	7	-140		
	2SJ162	7	-160		
Gate to source voltage		V _{GSS}	±15	V	
Drain current		I _D	- 7	A	
Body to drain diode reverse drain current		I _{DR}	- 7	Α	
Channel dissipation		Pch Note 1	100	W	
Channel temperature		Tch	150	°C	
Storage temperature		Tstg	-55 to +150	°C	

Note: 1. Value at Tc = 25°C

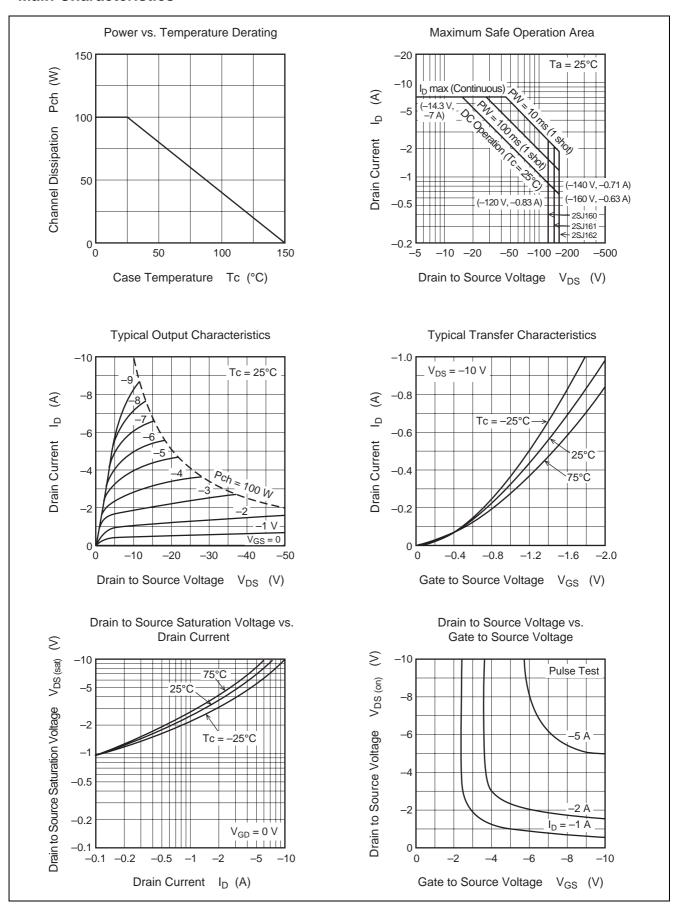
Electrical Characteristics

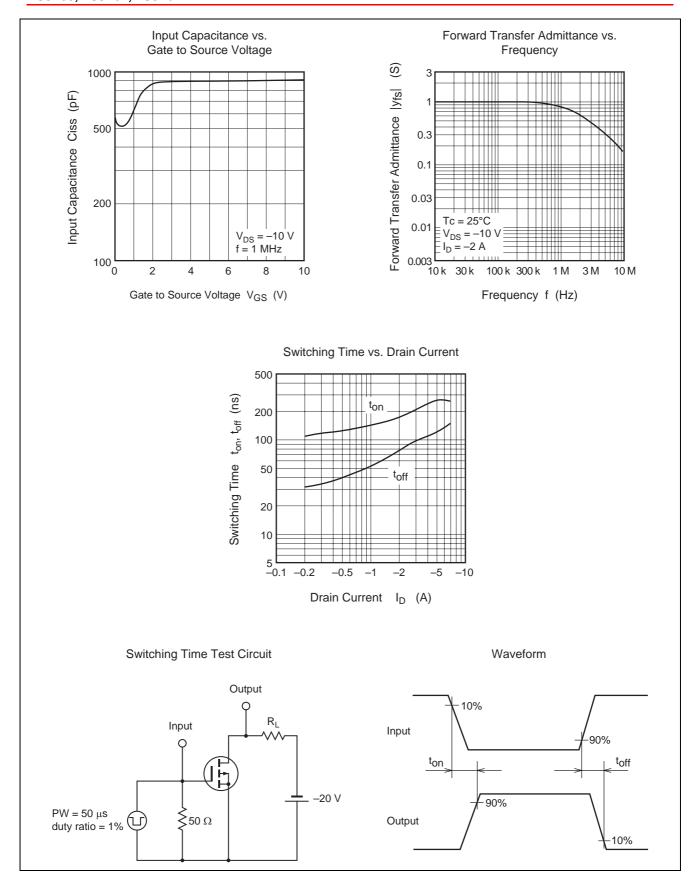
 $(Ta = 25^{\circ}C)$

Item		Symbol	Min	Тур	Max	Unit	Test Conditions
Drain to source breakdown	2SJ160	V _{(BR) DSX}	-120		_	V	$I_D = -10 \text{ mA}, V_{GS} = 10 \text{ V}$
voltage	2SJ161		-140	_	_	V	
	2SJ162		-160	_	_	V	
Gate to source breakdown voltage		V _{(BR) GSS}	±15		_	V	$I_G = \pm 100 \ \mu A, \ V_{DS} = 0$
Gate to source cutoff voltage		V _{GS (off)}	-0.15	_	-1.45	V	$I_D = -100 \text{ mA}, V_{DS} = -10 \text{ V}$
Drain to source saturation voltage		V _{DS (sat)}	_	_	-12	V	$I_D = -7 \text{ A}, V_{GS} = 0^{\text{Note 2}}$
Forward transfer admittance		y _{fs}	0.7	1.0	1.4	S	$I_D = -3 \text{ A}, V_{DS} = -10 \text{ V}^{\text{Note 2}}$
Input capacitance		Ciss	_	900	_	рF	$V_{GS} = 5 \text{ V}, V_{DS} = -10 \text{ V},$
Output capacitance		Coss	_	400	_	pF	f = 1 MHz
Reverse transfer capacitance		Crss	_	40	_	рF	
Turn-on time		t _{on}	_	230	_	ns	$V_{DD} = -20 \text{ V } I_D = -4 \text{ A}$
Turn-off time		t _{off}	_	110	_	ns	

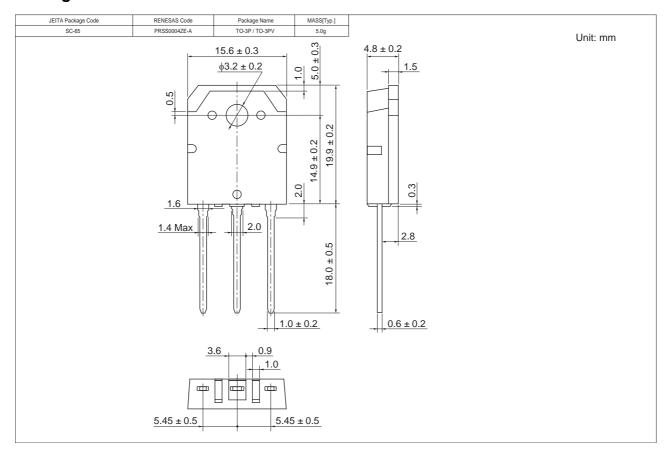
Note: 2. Pulse test

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SJ160-E	360 pcs	Box (Tube)
2SJ161-E	360 pcs	Box (Tube)
2SJ162-E	360 pcs	Box (Tube)

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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