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2SJ160, 2SJ161, 2SJ162

Silicon P Channel MOS FET

REJ03G0847-0200 (Previous: ADE-208-1182) Rev.2.00 Sep 07, 2005

Description

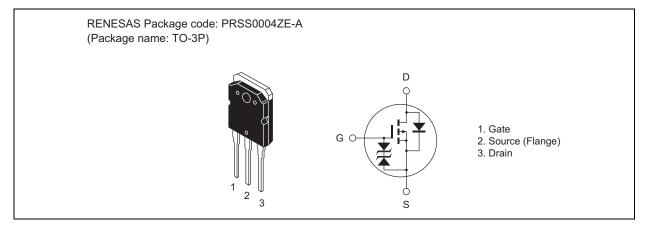
Low frequency power amplifier

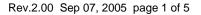
Complementary pair with 2SK1056, 2SK1057 and 2SK1058

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	2SJ160	V _{DSX}	-120	V
	2SJ161		-140	
	2SJ162		-160	
Gate to source voltage		V _{GSS}	±15	V
Drain current		Ι _D	-7	А
Body to drain diode reverse drain current		I _{DR}	-7	А
Channel dissipation		Pch Note 1	100	W
Channel temperature		Tch	150	٥°
Storage temperature		Tstg	-55 to +150	٥°
	2		•	

Note: 1. Value at $Tc = 25^{\circ}C$

Electrical Characteristics

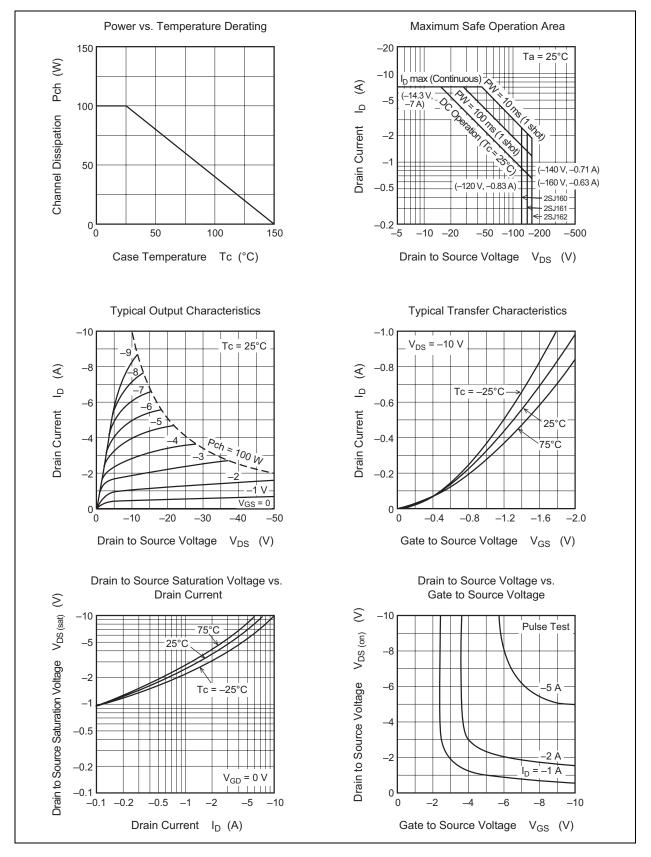
							$(Ta = 25^{\circ}C)$
Item		Symbol	Min	Тур	Max	Unit	Test Conditions
Drain to source breakdown	2SJ160	V (BR) DSX	-120	—	_	V	$I_D = -10 \text{ mA}, V_{GS} = 10 \text{ V}$
voltage	2SJ161		-140	_	_	V	
	2SJ162		-160	—	—	V	
Gate to source breakdown voltage		V (BR) GSS	±15	—	—	V	$I_{G} = \pm 100 \ \mu A, \ V_{DS} = 0$
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	$I_D = -3 \text{ A}, V_{DS} = -10 \text{ V}^{Note 2}$
Input capacitance		Ciss	—	900	_	pF	$V_{GS} = 5 V, V_{DS} = -10 V,$
Output capacitance		Coss	—	400	_	pF	f = 1 MHz
Reverse transfer capacitance		Crss	—	40		pF	
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

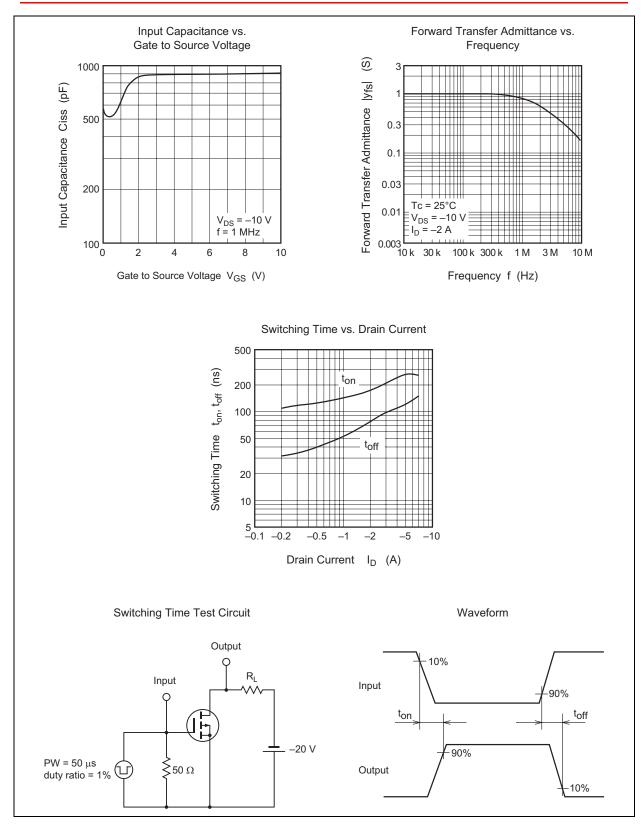
Rev.2.00 Sep 07, 2005 page 2 of 5



Main Characteristics



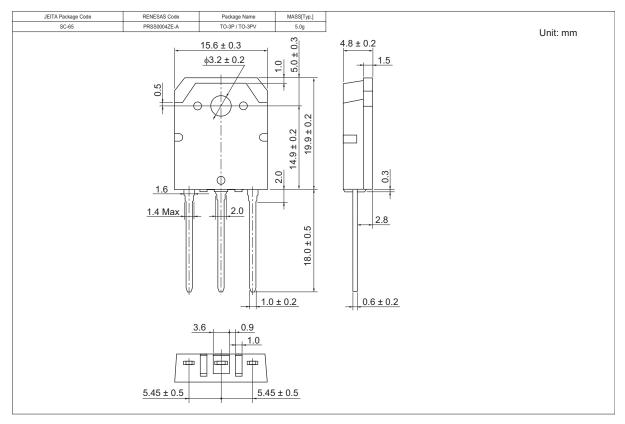




Rev.2.00 Sep 07, 2005 page 4 of 5

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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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