2SJ0164 (2SJ164)

Silicon P-channel junction FET

For switching circuits Complementary to 2SK1104

Features

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}	300	mW
Channel temperature	T _{ch}	150	S.c
Storage temperature	T _{stg}	-55 to +150	C

Package

■ Features			■ Pack	ago		<i>.</i> O.	
Low ON resistance			• Code		0		
Low-noise characteristics		NS-A	1	Line			
			• Pin Na	ame			
Absolute Maximum Ratir	$ngs T_a = 25$	5°C	1: Sou	rce			
Parameter	Symbol	Rating	Unit 2: Gate	ु०,	7.		
Gate-drain surrender voltage	V _{GDS}	65	V 3: Dra	<u>4.</u> 70			
Drain current	I_D	-20	mA O	9,			
Gate current	I_{G}	-10	mA O		6	S .	
Power dissipation	P _D	300	mW CO		KIN		
Channel temperature	T _{ch}	150	3.00 M	(D ,		
Storage temperature	T _{stg}	-55 to +150	30	163			
	2 On 196	storthis	s nay tactour				
■ Electrical Characteristics	OUI OUI	FOCO.	s may tour of our	0			
■ Electrical Characteristics	O JUN T 325°C Symbol	36.00.	a conditions	Min	Тур	Max	Un
Electrical Characteristics Parameter Gate-drain surrender Voltage	T \$25°C Symbol	18 = 100 36 °C	contract our \mathbf{A} , $\mathbf{V}_{DS} = 0$	Min 65	Тур	Max	
Electrical Characteristics Parameter Gate-drain surrender Voltage Drain-source current	T > 25°C Symbol Ips	\$\frac{1}{2} \\ \frac{1}{2} \\ \fra	contact out a contact out a conditions $A, V_{DS} = 0$ or $V, V_{GS} = 0$	Min 65 - 0.6	Тур	Max -6.0	V
Parameter Gate-drain surrender voltage Drain-source current Gate-source current	T \$25°C Symbol IDSS	$V_{\text{DS}} = -10$ $V_{\text{DS}} = -10$ $V_{\text{GS}} = 30$	contact out a c	Min 65 -0.6	Тур	-6.0	V mA
Parameter, Gate-drain surrender voltage Drain-source cutoff cuttent Gate-source cutoff voltage	T 25°C Synthol IDS VSS VSS	$\frac{1}{2}$ $\frac{1}$	conditions $A, V_{DS} = 0$ $0, V, V_{DS} = 0$ $0, V, V_{DS} = 0$ $0, V, I_{D} = -10 \mu A$	Min 65 - 0.6	Typ	-6.0 10 3.5	V mA
Mutual conductance	g _m	$V_{DS} = -10$	$V, I_D = -1 \text{ mA}, f = 1 \text{ kHz}$	Min 65 - 0.6	Typ 1.5 2.5	-6.0 10 3.5	V mA nA
Parameter Gate-drain surrender voltage Drain-source cuttent Gate-source cutoff cuttent Gate-source cutoff voltage Muttal conductance Short-circuit forward ransfer capacita	g _m	$V_{DS} = -10$	Conditions $A, V_{DS} = 0$ $0, V, V_{GS} = 0$ $0, V, I_{D} = -10 \mu A$ $0, V, I_{D} = -1 mA, f = 1 kHz$ $0, V, V_{GS} = 0, f = 1 MHz$	Min 65 - 0.6	1.5 2.5	-6.0 10 3.5	V mA
Mutual conductance Short-circuit forward transfer capacita	g _m	$V_{DS} = -10$	$V, I_D = -1 \text{ mA}, f = 1 \text{ kHz}$	Min 65 -0.6	2.5	-6.0 10 3.5	Unn V mA nAA V mSS pFF

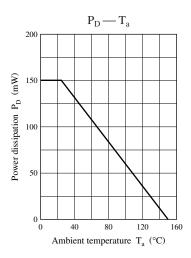
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

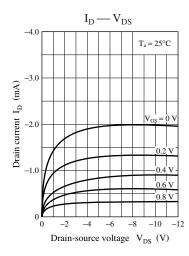
2. Observe precautions for handling. Electrostatic sensitive devices.

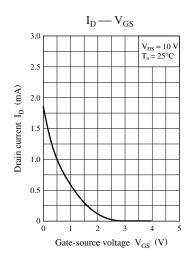
3. *: Rank classification

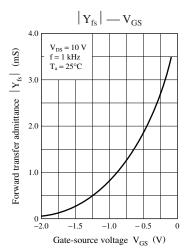
Rank	Р	Q	R
I _{DSS} (mA)	− 0.6 to −1.5	-1.0 to -3.0	-2.5 to -6.0

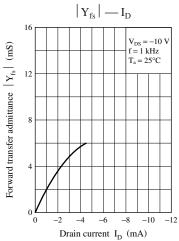
Note) The part number in the parenthesis shows conventional part number.

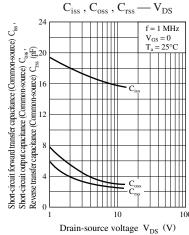






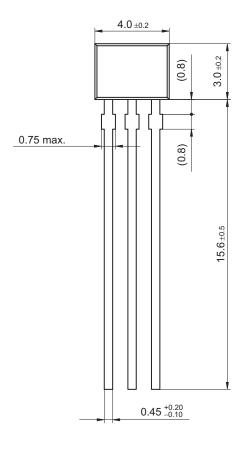


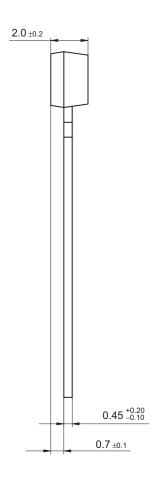


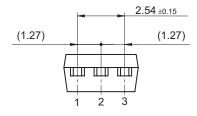


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NS-A1 Unit: mm







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