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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









KSK30

Low Noise PRE-AMP. Use

- High Input Impedance: I_{GSS}=1nA (MAX)
 Low Noise: NF=0.5dB (TYP)
 High Voltage: V_{GDS}= -50V



1. Source 2. Gate 3. Drain

Silicon N-channel Junction Fet

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Ratings	Units	
V_{GDS}	Gate-Drain Voltage	-50	V	
I _G	Gate-Current	10	mA	
P _D	Collector Dissipation	100	mW	
T _J	Junction Temperature	125	°C	
T _{STG}	Storage Temperature	-55 ~ 125	°C	

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{GDS}	Gate-Drain Breakdown Voltage	$V_{DS}=0, I_{G}=-100\mu A$	-50			V
I _{GSS}	Gate Leak Current	V_{GS} = -30V, V_{DS} =0			-1	nA
I _{DSS}	Drain Leak Current	V _{DS} =10V, V _{GS} =0	0.3		6.5	mA
V _{GS} (off)	Gate-Source Voltage	V _{DS} =10V, I _D =0.1μA	-0.4		-5	V
Y _{FS}	Forward Transfer Admittance	V _{DS} =10V, V _{GS} =0, f=1KHz	1.2			mS
C _{iss}	Input Capacitance	V _{DS} =0, V _{GS} =0, f=1MHz		8.2		pF
C _{rss}	Feedback Capacitance	V _{GD} =10V, V _{DS} =0 f=1MHz		2.6		pF
NF	Noise Figure	V_{DS} =15V, V_{GS} =0 R _G =100K Ω f=120Hz		0.5	5	dB

I_{DSS} Classification

Classification	R	0	Υ	G
I _{DSS} (mA)	0.30 ~ 0.75	0.60 ~ 1.40	1.20 ~ 3.00	2.60 ~ 6.50

Typical Characteristics

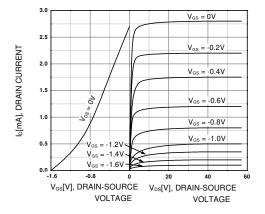
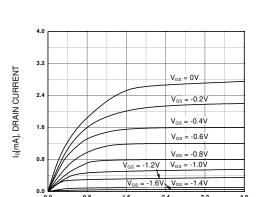


Figure 1. Static Characteristic



V_{DS}[V], DRAIN-SOURCE VOLTAGE

Figure 3. I_D - V_{DS}

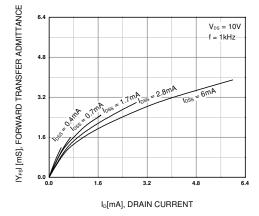


Figure 5. | Yfs |-I_D

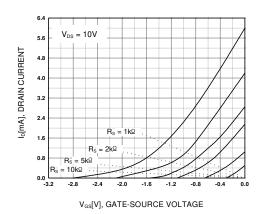


Figure 2. I_D-V_{GS}

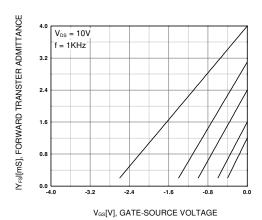


Figure 4. | Yfs | -V_{GS}

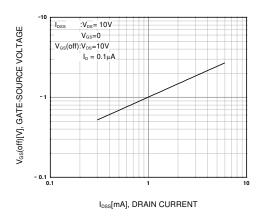


Figure 6. V_{GS}(off)-I_{DSS}

Typical Characteristics (Continued)

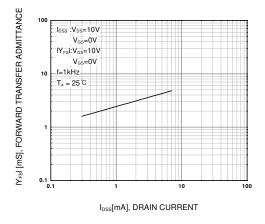


Figure 7. | Yfs | -I_{DSS}

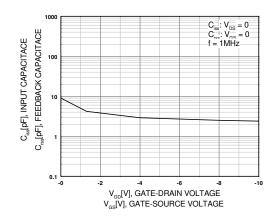


Figure 8. Ciss- V_{GS} , Crss- V_{GD}

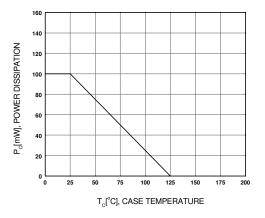
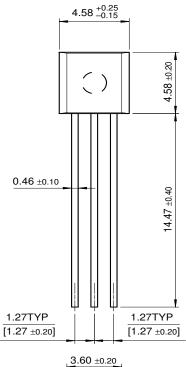
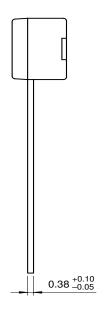


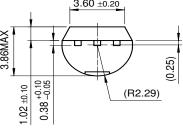
Figure 9. Power Derating

Package Dimensions

TO-92







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Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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