2SK715



N-Channel JFET 15V, 7.3 to 24mA, 50mS

Applications

- · AM Tuner RF Amp, Low-noise Amp
- · HF Low-noise Amp

Features

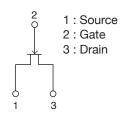
- · Adoption of FBET Process
- · Large | yfs |
- · Small Ciss
- · Very Low Noise Figure

Specifications

Absolute Maximum Ratings at Ta=25°C

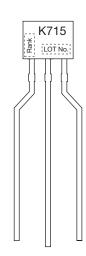
Parameter	Symbol	Ratings	Unit
Drain-to-Source Voltage	VDSS	15	V
Gate-to-Drain Voltage	V _{GDS}	-15	V
Gate Current	IG	10	mA
Drain Current	ID	50	mA
Allowable Power Dissipation	PD	300	mW
Junction Temperature	Tj	125	°C
Storage Temperature	Tstg	-55 to +125	°C

Electrical Connection Marking





TO-92-3 / SPA-WA



Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Ratings		
Parameter	Symbol		min	typ	max	Unit
Gate-to-Drain Breakdown Voltage	V(BR)GDS	I _G =-10μA, V _{DS} =0V	-15			V
Gate-to-Source Leakage Current	IGSS	V _{GS} =-10V, V _{DS} =0V			-1.0	nA
Zero-Gate Voltage Drain Current	IDSS*	V _{DS} =5V, V _{GS} =0V	7.3*		24.0*	mA
Cutoff Voltage	V _{GS} (off)	V _{DS} =5V, I _D =100μA		-0.6	-1.4	V
Forward Transfer Admittance	yfs	V _{DS} =5V, V _{GS} =0V, f=1kHz	25	50		mS
Input Capacitance	Ciss	\/		10		pF
Reverse Transfer Capacitance	Crss	V _{DS} =5V, V _{GS} =0V, f=1MHz		3.0		pF
Noise Figure	NF	$V_{DS}=5V$, $R_{\alpha}=1k\Omega$, $I_{D}=1mA$, $f=1kHz$		1.5		dB

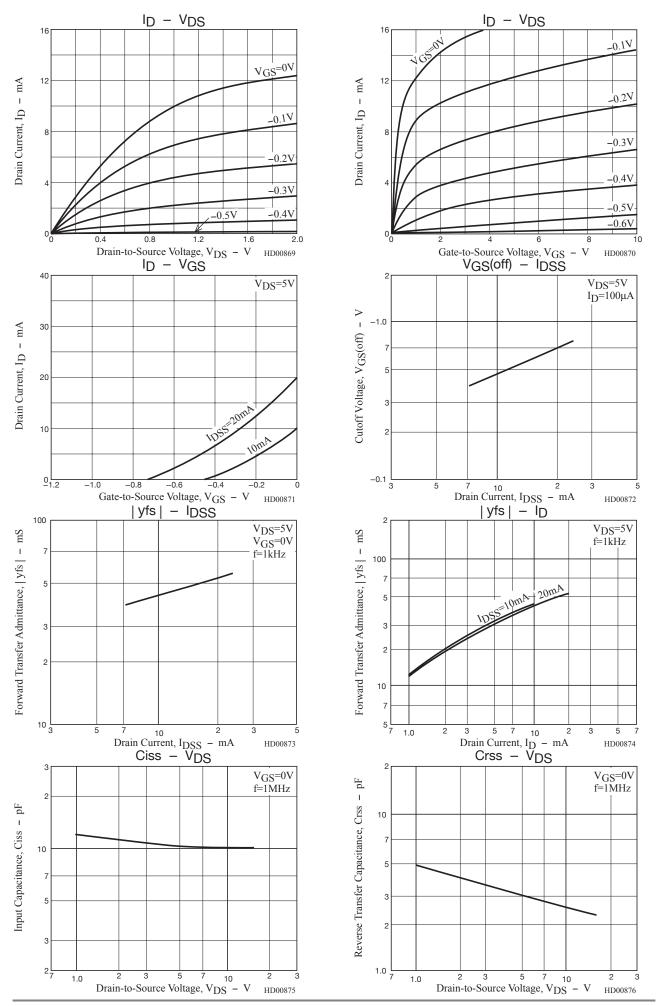
^{*:} The 2SK715 is classified by IDSS as follows: (unit: mA)

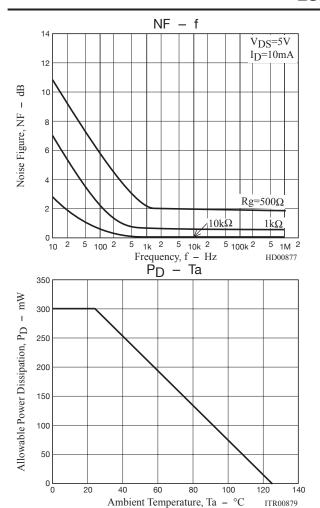
* = ~				
Rank U		V	W	
IDSS	7.3 to 12.0	10.0 to 17.0	14.5 to 24.0	

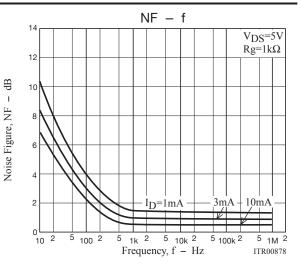
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

See detailed ordering and shipping information on page 5 of this data sheet.







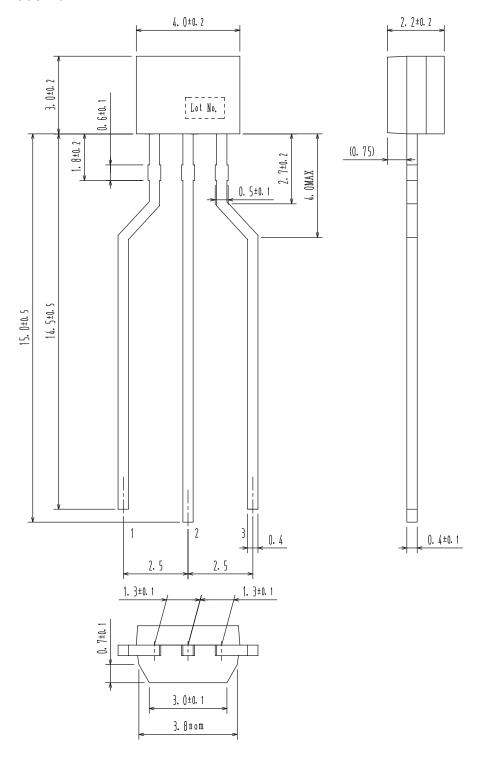
Package Dimensions

unit : mm

2SK715U-AC, 2SK715V-AC, 2SK715W-AC

TO-92 3 3.0x4.0 / SPA-WA

CASE 135AK ISSUE O



2SK715

ORDERING INFORMATION

Device	Package	Shipping	memo
2SK715U-AC			
2SK715V-AC	TO-92-3 / SPA-W	2,500pcs. / Tape and Reel	Pb-Free
2SK715W-AC			

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