

# 2SK443

### Features

- Large  $|Y_{fs}|$ .
- Small Ciss.
- Very low noise figure.
- Very small-sized package permitting 2SK443-applied sets to be small-sized.

### Absolute Maximum Ratings at Ta = 25°C

			unit
Drain-to-Source Voltage	$V_{DS}$	15	V
Gate-to-Drain Voltage	$V_{GDS}$	-15	V
Gate Current	$I_G$	10	mA
Drain Current	$I_D$	50	mA
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 to +125	°C

### Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_D = 10\mu A, V_{DS} = 0$	-15			V
Common-Source Gate Cutoff Current	$I_{GSS}$	$V_{GS} = -10V, V_{DS} = 0$			-1.0	nA
Gate-to-Source Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100\mu A$	-0.9	-2.0		V
Drain Current	$I_{DSS}$	$V_{DS} = 5V, V_{GS} = 0$	5.0*		38.0*	mA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 5V, V_{GS} = 0, f = 1kHz$	20	30		mS
Input Capacitance	Ciss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		9.0		pF
Reverse Transfer Capacitance	Crss	$V_{DS} = 5V, V_{GS} = 0, f = 1MHz$		2.8		pF
Noise Figure	NF	$V_{DS} = 5V, R_g = 1k\Omega, I_D = 1mA, f = 1kHz$		1.5		dB

\* The 2SK443 is classified by  $I_{DSS}$  as follows (unit : mA) :

5.0	5	12.0	10.0	6	24.0	16.0	7	38.0
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(Note) Marking : AJ  
 $I_{DSS}$  rank : 5, 6, 7

### Package Dimensions 2050A (unit : mm)

