

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

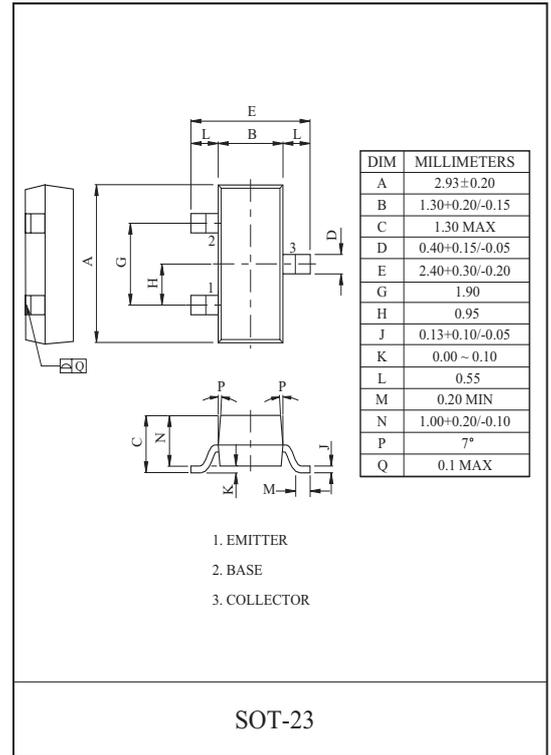
FEATURES

- Complementary to the KN4402S/4403S
- Suffix U : Qualified to AEC-Q101.
ex) KN4401S-RTK/HU

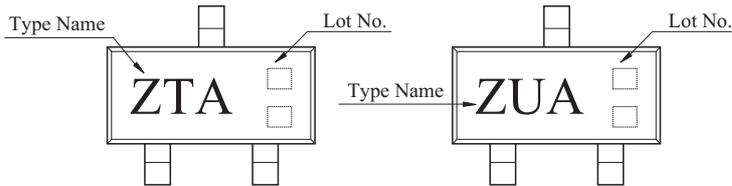
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	600	mA
Collector Power Dissipation	P_C^*	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

Note : * Package Mounted On 99.5% Alumina 10 × 8 × 0.6mm)



Marking



MARK SPEC

TYPE	MARK
KN4400S	ZTA
KN4401S	ZUA

KN4400S/4401S

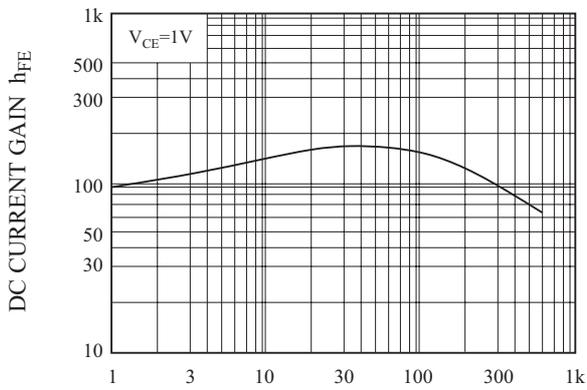
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current		I_{CEX}	$V_{CE}=35V, V_{EB}=0.4V$	-	-	100	nA	
Collector Cut-off Current		I_{CBO}	$V_{CB}=60V, I_E=0$	-	-	100	nA	
Emitter Cut-off Current		I_{EBO}	$V_{EB}=6V, I_C=0$	-	-	100	nA	
Collector-Base Breakdown Voltage		$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	60	-	-	V	
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	40	-	-	V	
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6.0	-	-	V	
DC Current Gain	KN4401S	$h_{FE(1)}$	$V_{CE}=1V, I_C=0.1mA$	20	-	-		
	KN4400S	$h_{FE(1)}$	$V_{CE}=1V, I_C=1mA$	20	-	-		
	KN4401S	$h_{FE(2)}$		40	-	-		
	KN4400S	$h_{FE(2)}$	$V_{CE}=1V, I_C=10mA$	40	-	-		
	KN4401S	$h_{FE(3)}$		80	-	-		
	KN4400S	$h_{FE(3)}$	$V_{CE}=1V, I_C=150mA$	50	-	150		
	KN4401S	$h_{FE(4)}$		100	-	300		
	KN4400S	$h_{FE(4)}$	$V_{CE}=2V, I_C=500mA$	20	-	-		
KN4401S	$h_{FE(5)}$	40		-	-			
Collector-Emitter Saturation Voltage		*	$V_{CE(sat)1}$	$I_C=150mA, I_B=15mA$	-	-	0.4	V
			$V_{CE(sat)2}$	$I_C=500mA, I_B=50mA$	-	-	0.75	
Base-Emitter Saturation Voltage		*	$V_{BE(sat)1}$	$I_C=150mA, I_B=15mA$	0.75	-	0.95	V
			$V_{BE(sat)2}$	$I_C=500mA, I_B=50mA$	-	-	1.2	
Transition Frequency	KN4400S	f_T	$V_{CE}=10V, I_C=20mA, f=100MHz$	200	-	-	MHz	
	KN4401S			250	-	-		
Collector Output Capacitance		C_{ob}	$V_{CB}=5V, I_E=0, f=1MHz$	-	-	6.5	pF	

* Pulse Test : Pulse Width 300 μs , Duty Cycle 2%.

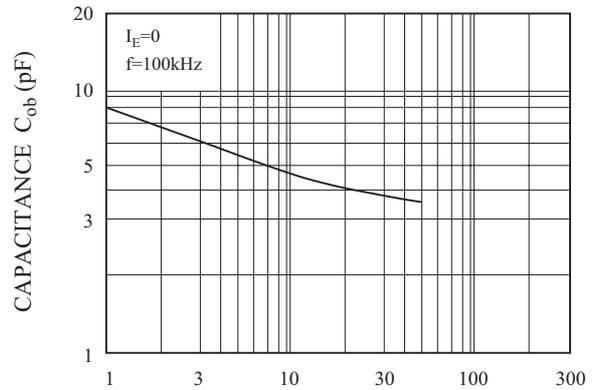
KN4400S/4401S

$h_{FE} - I_C$



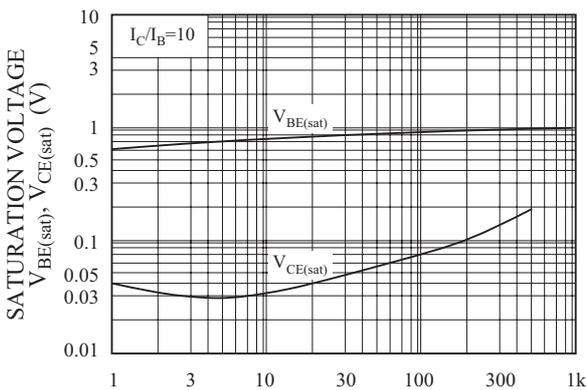
COLLECTOR CURRENT I_C (mA)

$C_{ob} - V_{CB}$



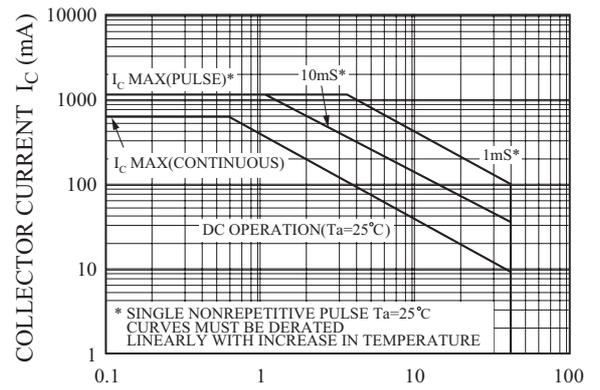
COLLECTOR-BASE VOLTAGE V_{CB} (V)

$V_{BE(sat)}, V_{CE(sat)} - I_C$



COLLECTOR CURRENT I_C (mA)

SAFE OPERATING AREA



COLLECTOR-EMITTER V_{CE} (V)

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