

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

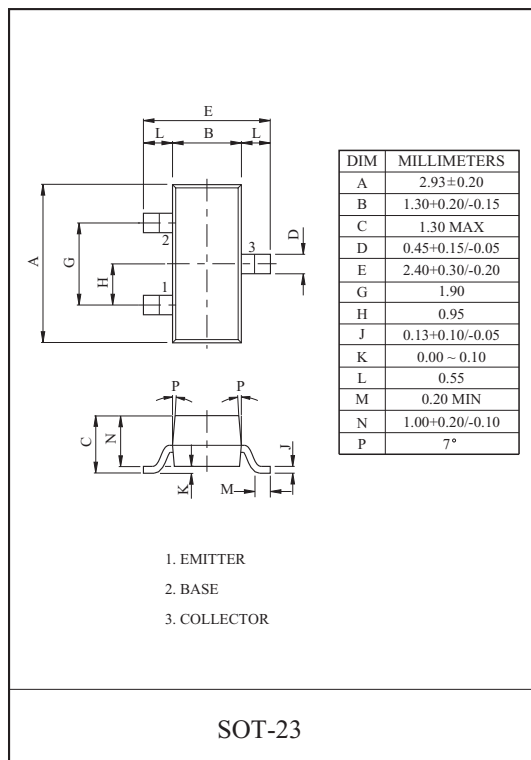
FEATURES

- Low Leakage Current
: $I_{CEX} = -50\text{nA}(\text{Max.})$; $V_{CE} = -30\text{V}$, $V_{EB} = -0.5\text{V}$.
- Low Saturation Voltage
: $V_{CE(\text{sat})} = -0.4\text{V}(\text{Max.})$; $I_C = 150\text{mA}$, $I_B = -15\text{mA}$.
- Complementary to the KN2222S/2222AS.

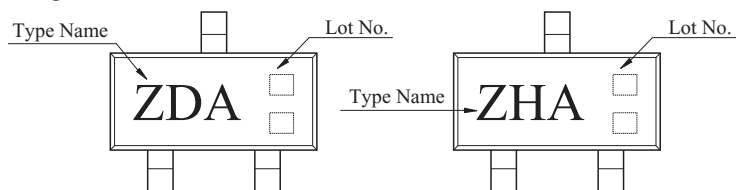
MAXIMUM RATING ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING		UNIT
		KN2907S	KN2907AS	
Collector-Base Voltage	V _{CBO}	-60		V
Collector-Emitter Voltage	V _{CEO}	-40	-60	V
Emitter-Base Voltage	V _{EBO}	-5		V
Collector Current	I _C	-600		mA
Collector Power Dissipation (Ta=25 ℃)	P _C	150		mW
	P _C *	350		
Junction Temperature	T _j	150		℃
Storage Temperature Range	T _{stg}	-55 ~150		℃

Note : * Package Mounted On 99.5% Alumina $10 \times 8 \times 0.6\text{mm}$)



Marking



MARK SPEC

TYPE	MARK
KN2907S	ZDA
KN2907AS	ZHA

KN2907S/AS

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CEX}	$V_{CE}=-30V, V_{EB}=-0.5V$	-	-	-50	nA
Collector Cut-off Current	KN2907S	I_{CBO}	$V_{CB}=-50V, I_E=0$	-	-	-20	nA
	KN2907AS			-	-	-10	
Collector-Base Breakdown Voltage		$V_{(BR)CBO}$	$I_C=-10\mu A, I_E=0$	-60	-	-	V
Collector-Emitter * Breakdown Voltage	KN2907S	$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-40	-	-	V
	KN2907AS			-60	-	-	
Emitter-Base Breakdown Voltage		$V_{(BR)EBO}$	$I_E=-10\mu A, I_C=0$	-5	-	-	V
DC Current Gain	KN2907S	$h_{FE}(1)$	$I_C=-0.1mA, V_{CE}=-10V$	35	-	-	
	KN2907AS			75	-	-	
	KN2907S	$h_{FE}(2)$	$I_C=-1.0mA, V_{CE}=-10V$	50	-	-	
	KN2907AS			100	-	-	
	KN2907S	$h_{FE}(3)$	$I_C=-10mA, V_{CE}=-10V$	75	-	-	
	KN2907AS			100	-	-	
	KN2907S	$h_{FE}(4) *$	$I_C=-150mA, V_{CE}=-10V$	100	-	300	
	KN2907AS						
	KN2907S	$h_{FE}(5) *$	$I_C=-500mA, V_{CE}=-10V$	30	-	-	
	KN2907AS			50	-	-	
Collector-Emitter Saturation Voltage *		$V_{CE(sat)1}$	$I_C=-150mA, I_B=-15mA$	-	-	-0.4	V
		$V_{CE(sat)2}$	$I_C=-500mA, I_B=-50mA$	-	-	-1.6	
Base-Emitter Saturation Voltage *		$V_{BE(sat)1}$	$I_C=-150mA, I_B=-15mA$	-	-	-1.3	V
		$V_{BE(sat)2}$	$I_C=-500mA, I_B=-50mA$	-	-	-2.6	
Transition Frequency		f_T	$V_{CE}=-20V, I_C=-50mA, f=100MHz$	200	-	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	-	8	pF

* Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.

KN2907S/AS

