

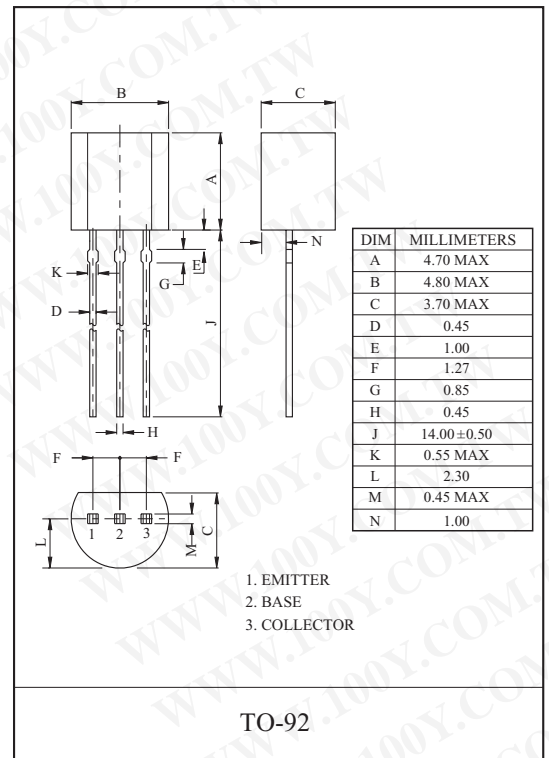
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Low Leakage Current
: $I_{CEX}=10\text{nA}(\text{Max.})$; $V_{CE}=60\text{V}$, $V_{EB(\text{OFF})}=3\text{V}$.
- Low Saturation Voltage
: $V_{CE(\text{sat})}=0.3\text{V}(\text{Max.})$; $I_C=150\text{mA}$, $I_B=15\text{mA}$.
- Complementary to the KN2907/2907A.

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

CHARACTERISTIC	SYMBOL	RATING		UNIT
		KN2222	KN2222A	
Collector-Base Voltage	V_{CBO}	60	75	V
Collector-Emitter Voltage	V_{CEO}	30	40	V
Emitter-Base Voltage	V_{EBO}	5	6	V
Collector Current	I_C	600		mA
Collector Power Dissipation ($T_a=25^\circ\text{C}$)	P_C	625		mW
Junction Temperature	T_j	150		$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150		$^\circ\text{C}$



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

KN2222/A

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Collector Cut-off Current	KN2222A	I_{CEX}	$V_{CE}=60V, V_{EB(OFF)}=3V$	-	-	10	nA		
Collector Cut-off Current	KN2222	I_{CBO}	$V_{CB}=50V, I_E=0$	-	-	10	nA		
	KN2222A		$V_{CB}=60V, I_E=0$	-	-	10			
Emitter Cut-off Current	KN2222A	I_{EBO}	$V_{EB}=3V, I_C=0$	-	-	10	nA		
Collector-Base Breakdown Voltage	KN2222	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	60	-	-	V		
	KN2222A			75	-	-			
Collector-Emitter Breakdown Voltage *	KN2222	$V_{(BR)CEO}$	$I_E=10mA, I_B=0$	30	-	-	V		
	KN2222A			40	-	-			
Emitter-Base Breakdown Voltage	KN2222	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5	-	-	V		
	KN2222A			6	-	-			
DC Current Gain *	KN2222	$h_{FE}(1)$	$I_C=0.1mA, V_{CE}=10V$	35	-	-	V		
			$I_C=1mA, V_{CE}=10V$	50	-	-			
			KN2222A	$h_{FE}(3)$	$I_C=10mA, V_{CE}=10V$	75		-	-
				$h_{FE}(4)$	$I_C=150mA, V_{CE}=10V$	100		-	300
	KN2222	$h_{FE}(5)$	$I_C=500mA, V_{CE}=10V$	30	-	-			
				KN2222A	40	-		-	
Collector-Emitter Saturation Voltage *	KN2222	$V_{CE(sat)1}$	$I_C=150mA, I_B=15mA$	-	-	0.4	V		
				KN2222A	-	-		0.3	
	KN2222	$V_{CE(sat)2}$	$I_C=500mA, I_B=50mA$	-	-	1.6			
				KN2222A	-	-		1.0	
Base-Emitter Saturation Voltage *	KN2222	$V_{BE(sat)1}$	$I_C=150mA, I_B=15mA$	-	-	1.3	V		
				KN2222A	0.6	-		1.2	
	KN2222	$V_{BE(sat)2}$	$I_C=500mA, I_B=50mA$	-	-	2.6			
				KN2222A	-	-		2.0	
Transition Frequency	KN2222	f_T	$I_C=20mA, V_{CE}=20V$ $f=100MHz$	250	-	-	MHz		
	KN2222A			300	-	-			
Collector Output Capacitance		C_{ob}	$V_{CB}=10V, I_E=0, f=1.0MHz$	-	-	8	pF		

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

KN2222/A

