

SEMICONDUCTOR TECHNICAL DATA

KTC3226 EPITAXIAL PLANAR NPN TRANSISTOR

STROBO FLASH APPLICATION. HIGH CURRENT APLICATION.

FEATURES

- ${\boldsymbol \cdot}$ High DC Current Gain and Excellent h_{FE} Linearity
 - : $h_{FE}(1)=140\sim600 \text{ (V}_{CE}=1\text{V, I}_{C}=0.5\text{A})$
 - : $h_{FE}(2)=70(Min.)$, 200(Typ.) ($V_{CE}=1V$, $I_{C}=2A$).
- · Low Saturation Voltage
 - : $V_{CE(sat)}$ =0.5V(Max.) (I_{C} =2A, I_{B} =50mA).

MAXIMUM RATINGS (Ta=25°C)

CHARAC	SYMBOL	RATING	UNIT		
Collector-Base Voltage		V_{CBO}	30	V	
Collector Emitter Voltage		V _{CES}	30	V	
		$V_{\rm CEO}$	10		
Emitter Base Voltage		$V_{\rm EBO}$	6	V	
Collector Current	DC	I_{C}	2	Λ	
	Pulse (Note1)	I_{CP}	5	Α	
Base Current		$I_{ m B}$	2	Α	
Collector Power Dissipation		Pc	1	W	
Junction Temperature		$T_{\rm j}$	150	$^{\circ}$	
Storage Temperature Range		T_{stg}	-55~150	$^{\circ}$	



MILLIMETERS DIM P/ DEPTH:0.2 7.20 MAX В 5.20 MAX 0.60 MAX 2.50 MAX D 1.15 MAX 1.27 1.70 MAX 0.55 MAX 14.00± 0.50 0.35 MIN 0.75±0.10 M 25° 1.25 0 ø1.50 0.10 MAX Q 12.50 ± 0.50 1. EMITTER 1.00 2. COLLECTOR 3. BASE TO-92L

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB} =30V, I_{E} =0	-	-	100	nA
Emitter Cut-off Current	I_{EBO}	V_{EB} =6V, I_{C} =0	-	-	100	nA
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	$I_C=10$ mA, $I_B=0$	10	-	-	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	I_{E} =-1mA, I_{C} =0	6	-	-	V
DC Current Gain	h _{FE} (1) (Note 2)	$V_{CE}=1V$, $I_{C}=0.5A$	140	-	600	
De Current Gain	h _{FE} (2)	$V_{CE}=1V$, $I_{C}=2A$	70	200	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	$I_C=2A$, $I_B=50mA$	-	0.2	0.5	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE}=1V$, $I_{C}=2A$	-	0.86	1.5	V
Transition Frequency	f_{T}	$V_{CE}=1V$, $I_{C}=0.5A$	-	150	-	MHz
Collector Output Capacitance	Cob	V_{CB} =10 V , I_{E} =0, f =1 MHz	_	27	_	рF

Note 2: h_{FE}(1) Classification A:140~240, B:200~330, C:300~450, D:420~600











