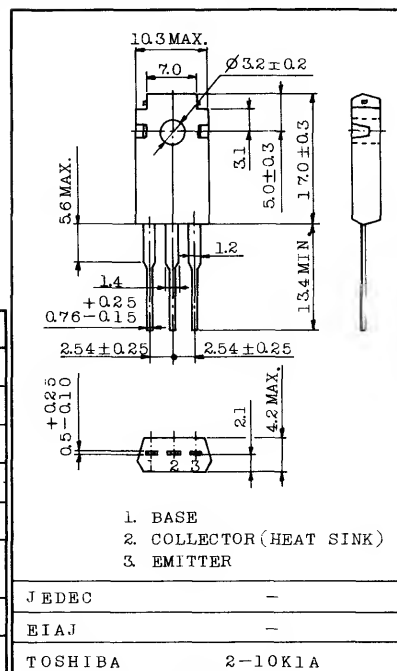


Unit in mm

. Low Collector Saturation Voltage
 $V_{CE(sat)} = -0.4V(\text{Max.})$ (at $I_C = -3A$)
 . High Speed Switching Time : $t_{stg} = 1.0\mu s(\text{Typ.})$
 . Complementary to 2SC3239



CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CB0}	-60	V
Collector-Emitter Voltage	V _{CE0}	-50	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current	I _C	-5	A
Base Current	I _B	-1	A
Collector Power Dissipation (T _C =25°C)	P _C	25	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=-50V, I_E=0$	-	-	-1	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-1	μA
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	$I_C=-10mA, I_B=0$	-50	-	-	V
DC Current Gain		$h_{FE(1)}$ (Note)	$V_{CE}=-1V, I_C=-1A$	70	-	240	
		$h_{FE(2)}$	$V_{CE}=-1V, I_C=-3A$	30	-	-	
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=-3A, I_B=-0.15A$	-	-0.2	-0.4	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=-3A, I_B=-0.15A$	-	-0.9	-1.2	
Transition Frequency		f_T	$V_{CE}=-4V, I_C=-1A$	-	60	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$	-	170	-	pF
Switching Time	Turn-on Time	t_{on}	$-I_{B1}=I_{B2}=0.15A$ DUTY CYCLE $\leq 1\%$ $V_{CC}=-30V$	-	0.1	-	μs
	Storage Time	t_{stg}		-	1.0	-	
	Fall Time	t_f		-	0.1	-	

Note : hFE(1) Classification 0 : 70~140, Y : 120~240

