

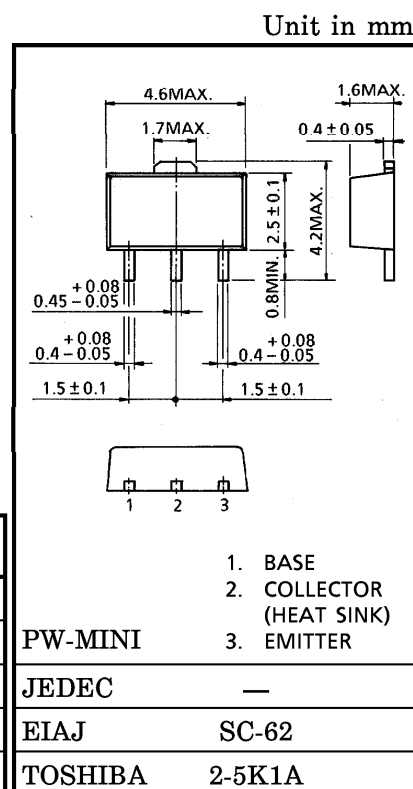
2SA1736

POWER SWITCHING APPLICATIONS

- Low Saturation Voltage: $V_{CE(sat)} = -0.5V$ (Max.) ($I_C = -1.5A$)
- High Speed Switching : $t_{stg} = 0.2\mu s$ (Typ.)
- Small Flat Package
- $P_C = 1 \sim 2W$ (Mounted on Ceramic Substrate)
- Complementary to 2SC4541

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-3	A
Base Current	I_B	-0.6	A
Collector Power Dissipation	P_C	500	mW
Collector Power Dissipation	P_C^*	1000	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

* : Mounted on ceramic substrate (250mm²×0.8t)



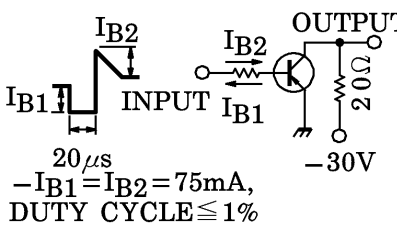
Weight : 0.05g

Marking

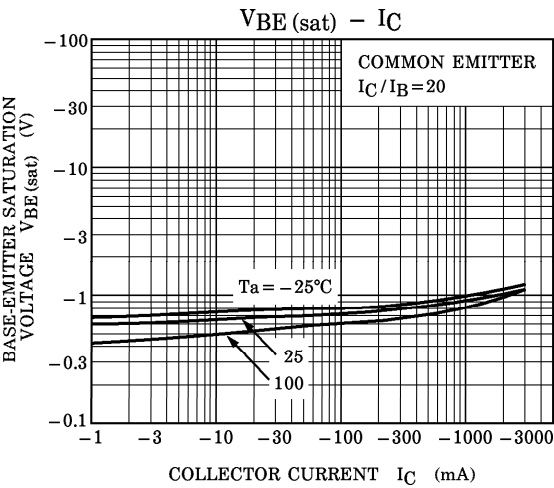
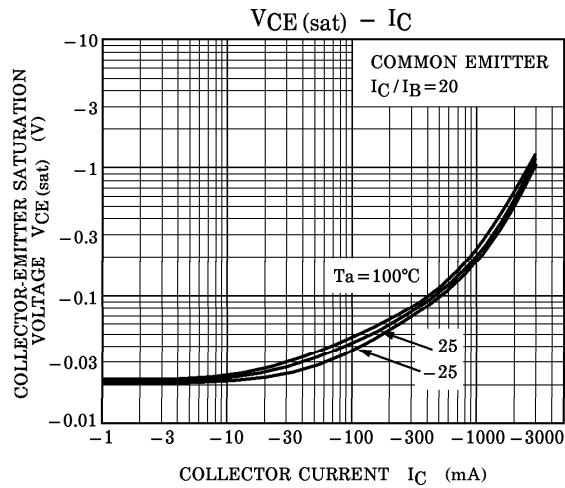
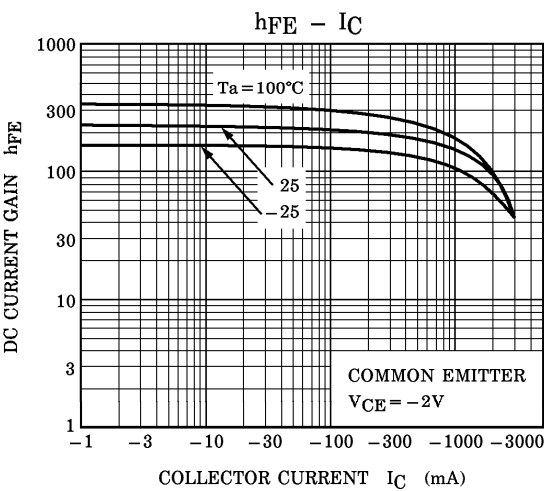
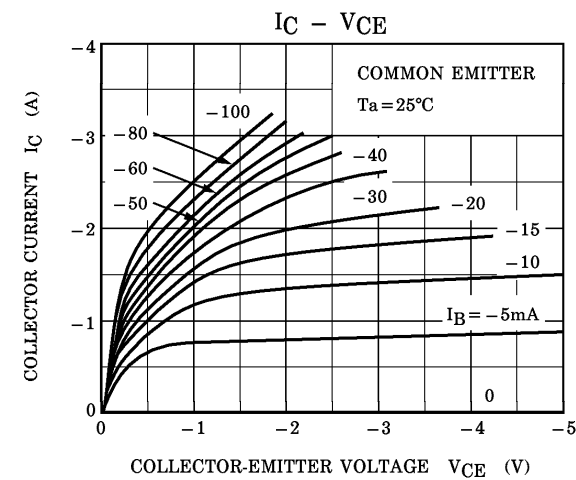
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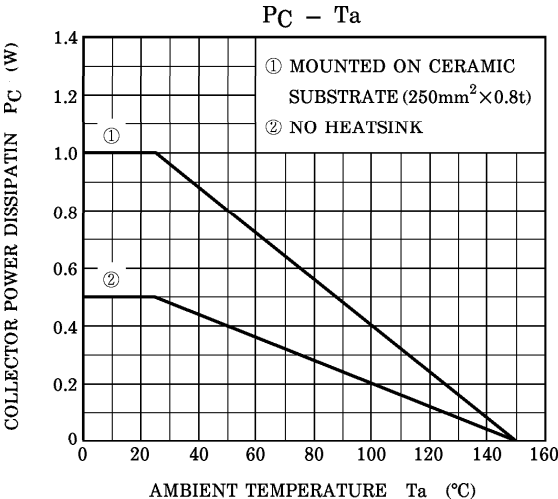
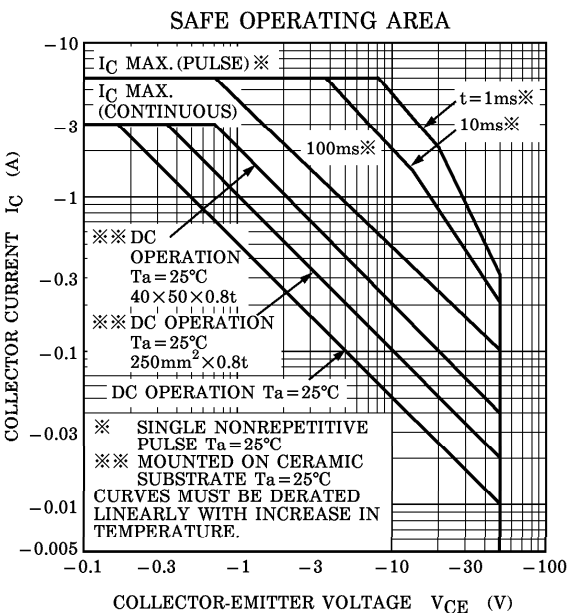
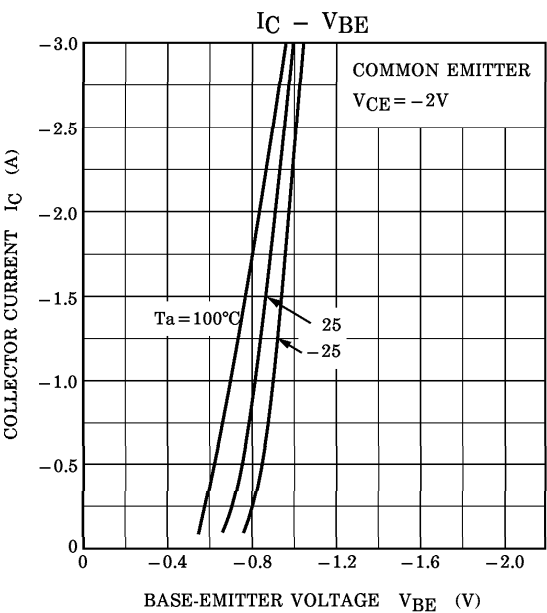


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB} = -60V, I_E = 0$	—	—	-0.1	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB} = -6V, I_C = 0$	—	—	-0.1	μA
Collector-Emitter Breakdown Voltage		$V_{(BR) CEO}$	$I_C = -10mA, I_E = 0$	-50	—	—	V
DC Current Gain	$h_{FE (1)}$		$V_{CE} = -2V, I_C = -100mA$	120	—	400	
	$h_{FE (2)}$		$V_{CE} = -2V, I_C = -2A$	40	—	—	
Collector-Emitter Saturation Voltage		$V_{CE (sat)}$	$I_C = -1.5A, I_B = -75mA$	—	—	-0.5	V
Base-Emitter Saturation Voltage		$V_{BE (sat)}$	$I_C = -1.5A, I_B = -75mA$	—	—	-1.2	V
Transition Frequency		f_T	$V_{CE} = -2V, I_C = -100mA$	—	100	—	MHz
Collector Output Capacitance		C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	—	32	—	pF
Switching Time	Turn-on Time	t_{on}	 20 μs $-I_{B1} = I_{B2} = 75mA$, DUTY CYCLE $\leq 1\%$	—	0.1	—	μs
	Storage Time	t_{stg}		—	0.2	—	
	Fall Time	t_f		—	0.1	—	

(2SA1736)





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