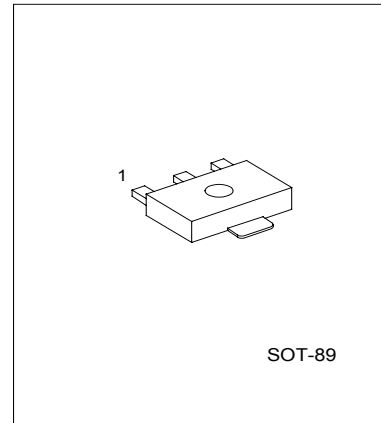


HIGH VOLTAGE DRIVER APPLICATION

FEATURES

- *High breakdown voltage.
- *Excellent h_{FE} linearity.



1:EMITTER 2:COLLECTOR 3:BASE

ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-400	V
Collector-Emitter Voltage	V_{CE0}	-400	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_c	-200	mA
Collector Current (PULSE)	I_{cp}	-400	mA
Collector Power Dissipation	P_c	1.3	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collect-Base Breakdown Voltage	BV_{CB0}	$I_c = -10\mu\text{A}, I_E = 0$	-400			V
Collect-Emitter Breakdown Voltage	BV_{CE0}	$I_c = -1\text{mA}, I_B = 0, R_{BE} = \infty$	-400			V
Emitter-Base Breakdown Voltage	BV_{EB0}	$I_E = -10\mu\text{A}, I_c = 0$	-5			V
Collector Cutoff Current	I_{cB0}	$V_{CB} = -300\text{V}, I_E = 0$			-0.1	μA
Emitter Cutoff Current	I_{EB0}	$V_{EB} = -4\text{V}, I_c = 0$			-0.1	μA
DC Current Transfer Ratio	h_{FE}	$V_{CE} = -10\text{V}, I_c = -50\text{mA}$	60		200	
Collect-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c = -50\text{mA}, I_B = -5\text{mA}$		-0.8		V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_c = -50\text{mA}, I_B = -5\text{mA}$			-1.0	V
Output Capacitance	C_{ob}	$V_{CB} = -30\text{V}, f = 1\text{MHz}$		5		pF
Reverse Transfer Capacitance	C_{re}	$V_{CB} = -30\text{V}, f = 1\text{MHz}$		4		pF
Gain-Bandwidth Product	f_T	$V_{CE} = -30\text{V}, I_c = -10\text{mA}$		70		MHz
Turn-on Time	t_{on}	See test circuit		0.25		μs
Turn-off Time	t_{off}	See test circuit		5.0		μs

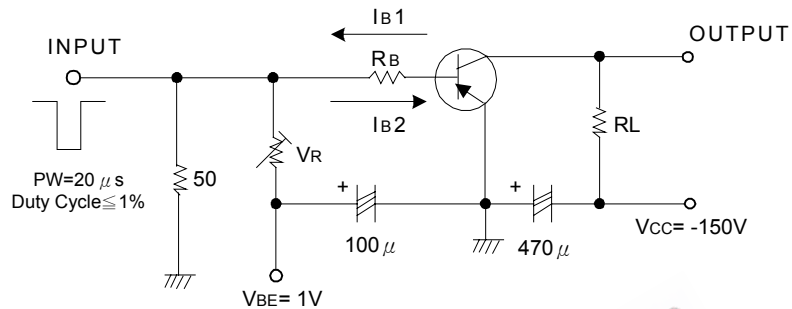
UTC2SA1740

PNP EPITAXIAL SILICON TRANSISTOR

CLASSIFICATION OF hFE

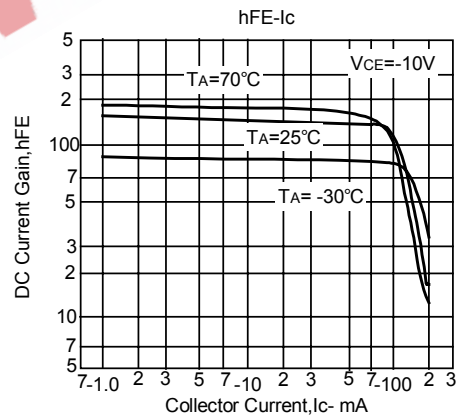
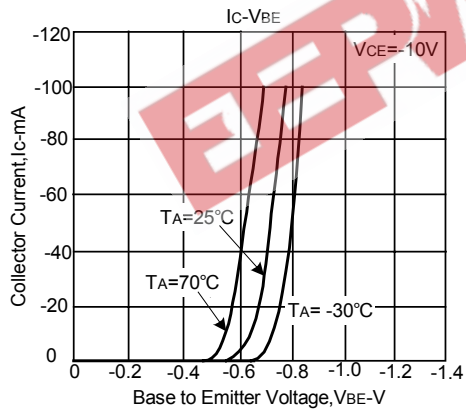
RANK	D	E
RANGE	60-120	100-200

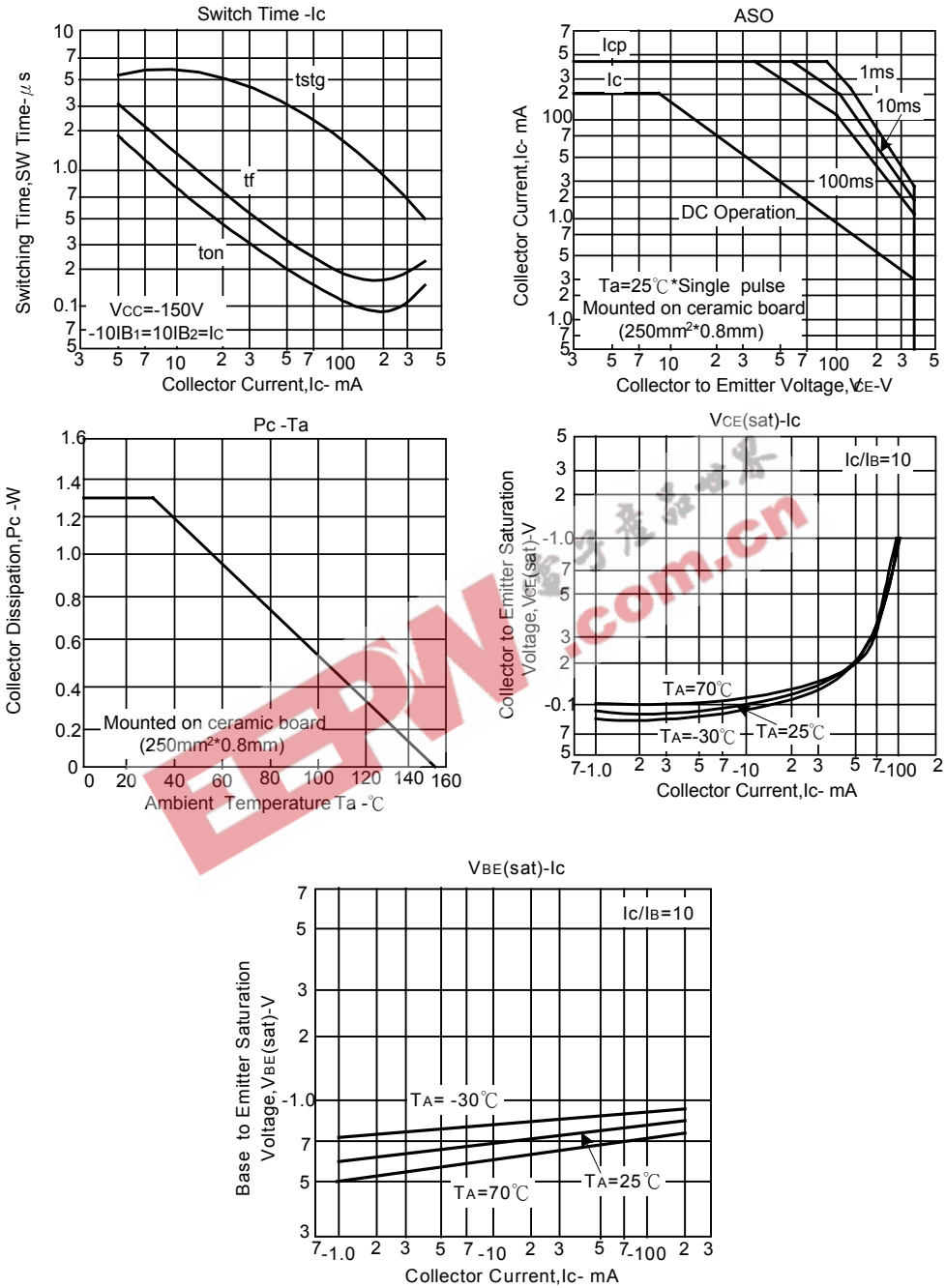
TEST CIRCUIT (Unit : (resistance : Ω , capacitance : F)



$-10I_{B1} = 10I_{B2} = I_C = -50\text{mA}$
 $R_L = 3\text{k}\Omega, R_B = 200\Omega$ at $I_C = -50\text{mA}$

ELECTRICAL CHARACTERISTICS CURVES





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