



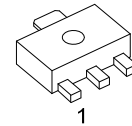
2SC3468

NPN EPITAXIAL SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR FOR VIDEO OUTPUT OF HIGH-DEFINITION CRT DISPLAYS

■ FEATURES

- * High breakdown voltage: $V_{CBO}, V_{CEO} \geq 300V$
- * Small reverse transfer capacitance and excellent high frequency characteristic



SOT-89

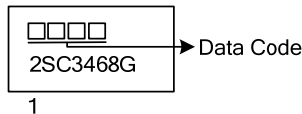
■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Packing
		1	2	3	
2SC3468G-x-AB3-R	SOT-89	B	C	E	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter

2SC3468G-x-AB3-R	(1)Packing Type (2)Package Type (3)Rank (4)Green Package	(1) R: Tape Reel (2) AB3: SOT-89 (3) x: refer to Classification of h_{FE} (4) G: Halogen Free and Lead Free
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■ MARKING



■ **ABSOLUTE MAXIMUM RATING** ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-to-Base Voltage	V_{CBO}	300	V
Collector-to-Emitter Voltage	V_{CEO}	300	V
Emitter-to-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	100	mA
Collector Current (Pulse)	I_{CP}	200	mA
Collector Dissipation	P_C	1.0	W
Junction Temperature	T_J	$0 \sim +125$	$^\circ\text{C}$
Storage Temperature	T_{STG}	$-65 \sim +125$	$^\circ\text{C}$

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. The device is guaranteed to meet performance specification within $0^\circ\text{C} \sim 70^\circ\text{C}$ operating temperature range and assured by design from $-20^\circ\text{C} \sim 85^\circ\text{C}$.

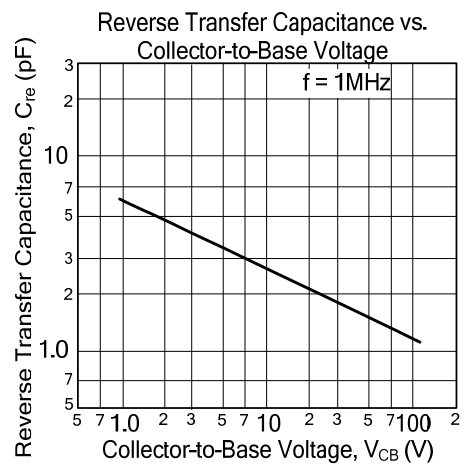
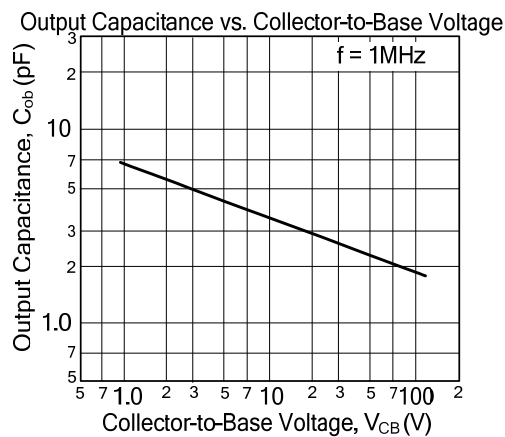
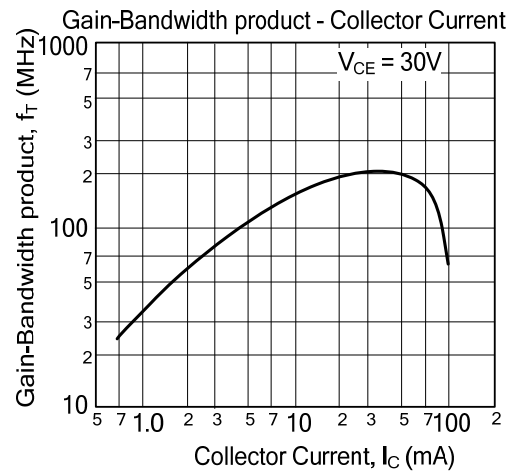
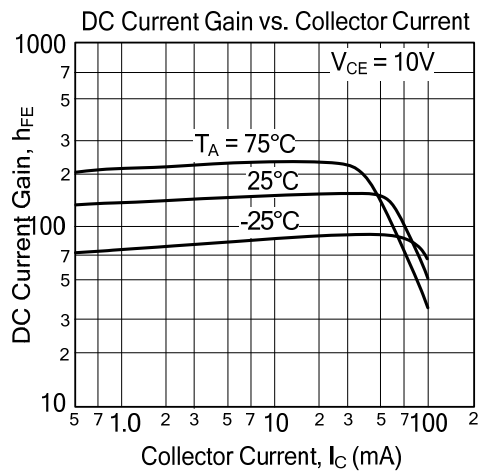
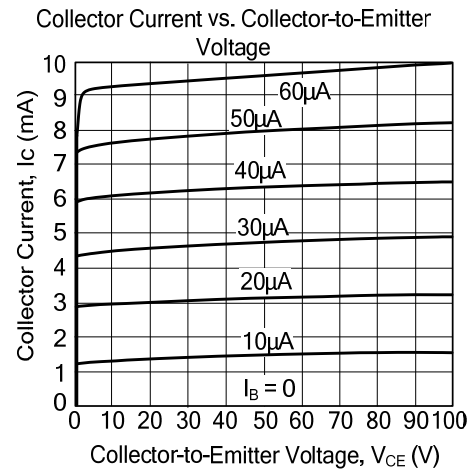
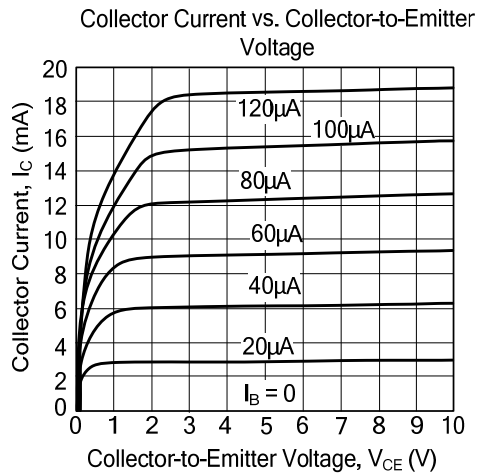
■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cutoff Current	I_{CBO}	$V_{CB} = 200\text{V}, I_E = 0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4\text{V}, I_C = 0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 10\text{V}, I_C = 10\text{mA}$	40		320	
Gain-Bandwidth Product	f_T	$V_{CE} = 30\text{V}, I_C = 10\text{mA}$		150		MHz
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$			0.6	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$			1.0	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu\text{A}, I_E = 0$	300			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, R_{BE} = \infty$	300			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu\text{A}, I_C = 0$	5			V
Output Capacitance	C_{ob}	$V_{CB} = 30\text{V}, f = 1\text{MHz}$		2.6		pF
Reverse Transfer Capacitance	C_{re}	$V_{CB} = 30\text{V}, f = 1\text{MHz}$		1.8		pF

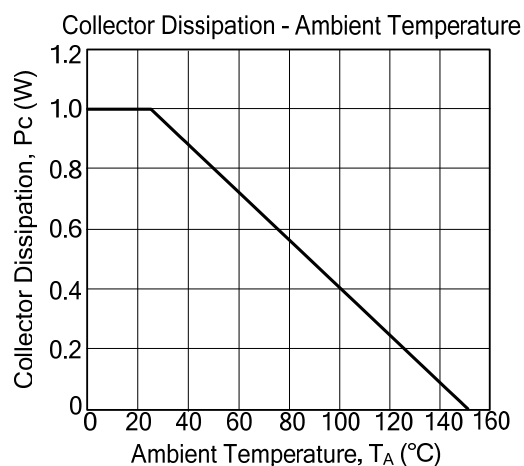
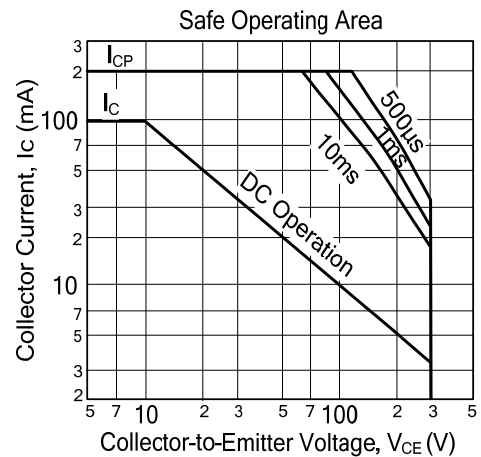
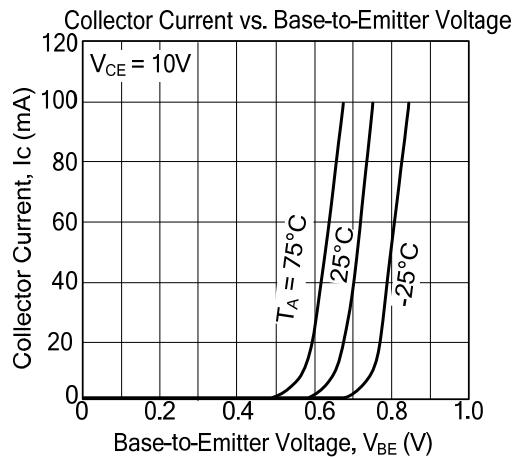
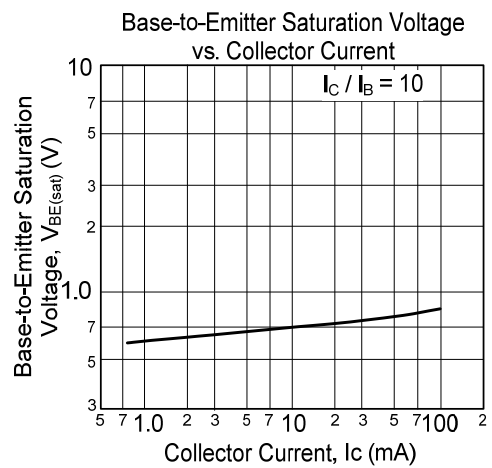
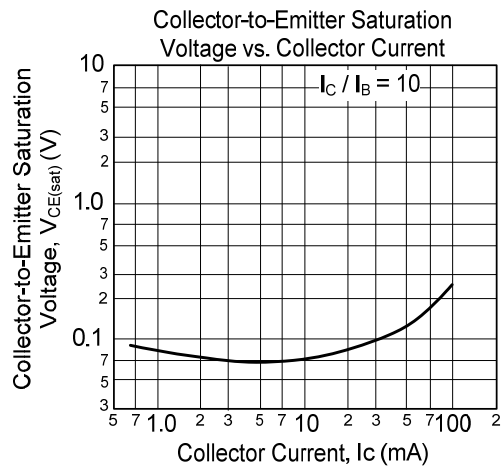
■ **CLASSIFICATION of h_{FE}**

RANK	C	D	E	F
RANGE	40 ~ 80	60 ~ 120	100 ~ 200	160 ~ 320

■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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