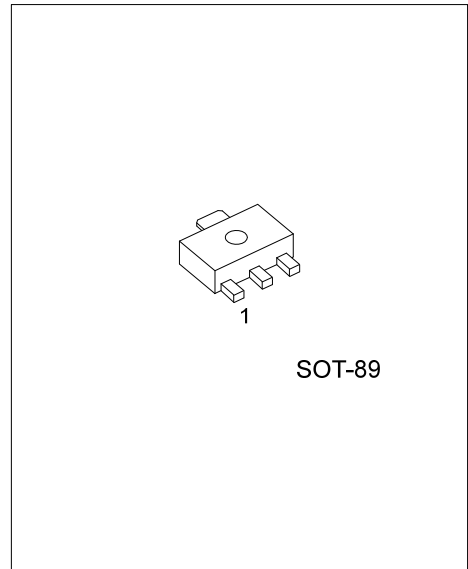




## 2SC3468

## 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

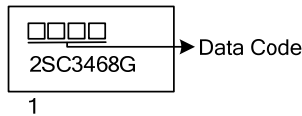
### ORDERING INFORMATION

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

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



■ ABSOLUTE MAXIMUM RATING (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-to-Base Voltage	V <sub>CBO</sub>	300	V
Collector-to-Emitter Voltage	V <sub>CEO</sub>	300	V
Emitter-to-Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	100	mA
Collector Current (Pulse)	I <sub>CP</sub>	200	mA
Collector Dissipation	P <sub>C</sub>	1.0	W
Junction Temperature	T <sub>J</sub>	0 ~ +125	°C
Storage Temperature	T <sub>STG</sub>	-65 ~ +125	°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°C ~70°C operating temperature range and assured by design from -20°C ~85°C.

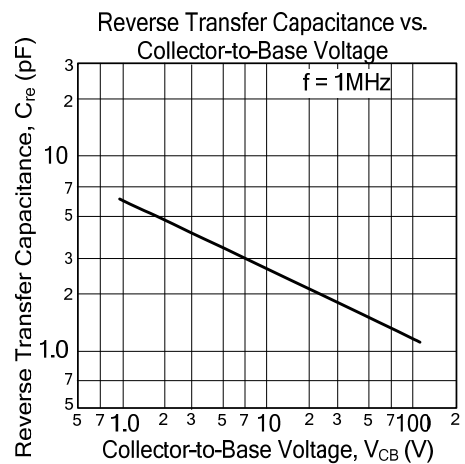
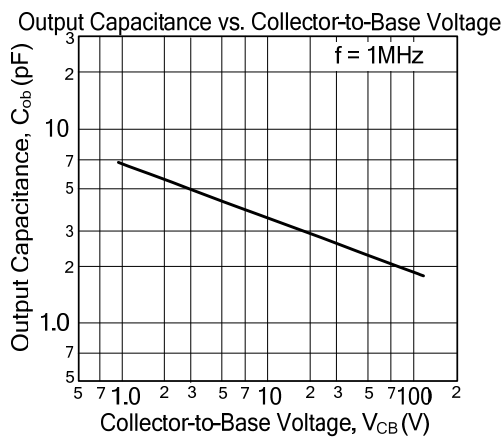
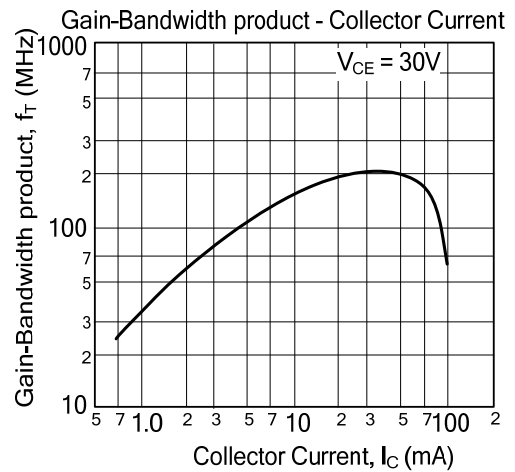
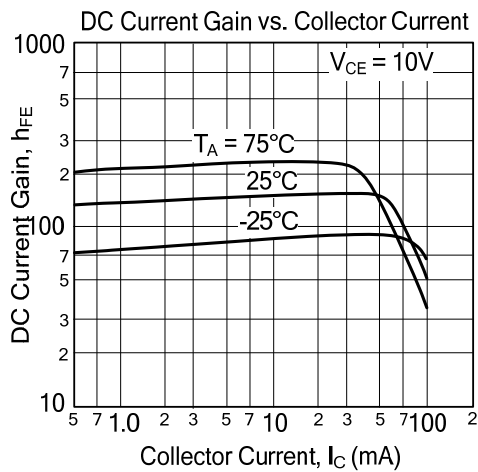
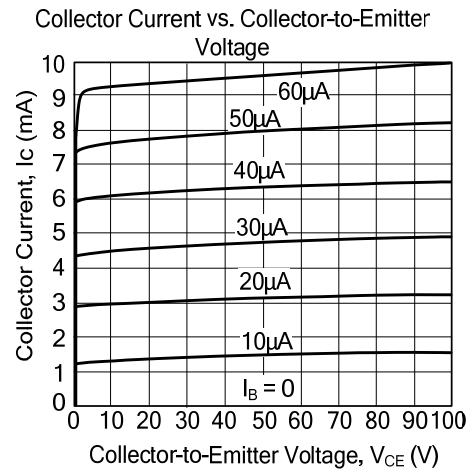
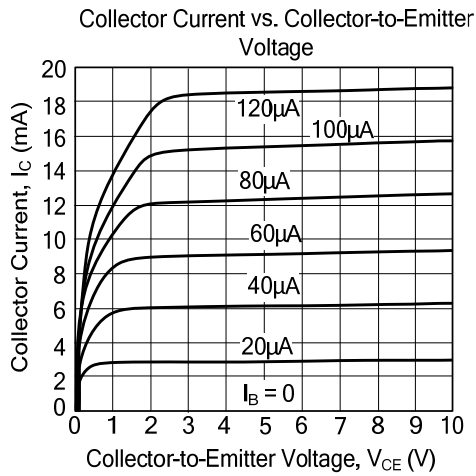
■ ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = 200V, I <sub>E</sub> = 0			0.1	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = 4V, I <sub>C</sub> = 0			0.1	μA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> = 10V, I <sub>C</sub> = 10mA	40		320	
Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> = 30V, I <sub>C</sub> = 10mA		150		MHz
Collector-to-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 20mA, I <sub>B</sub> = 2mA			0.6	V
Base-to-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = 20mA, I <sub>B</sub> = 2mA			1.0	V
Collector-to-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 10μA, I <sub>E</sub> = 0	300			V
Collector-to-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 1mA, R <sub>BE</sub> = ∞	300			V
Emitter-to-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> = 10μA, I <sub>C</sub> = 0	5			V
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 30V, f = 1MHz		2.6		pF
Reverse Transfer Capacitance	C <sub>re</sub>	V <sub>CB</sub> = 30V, f = 1MHz		1.8		pF

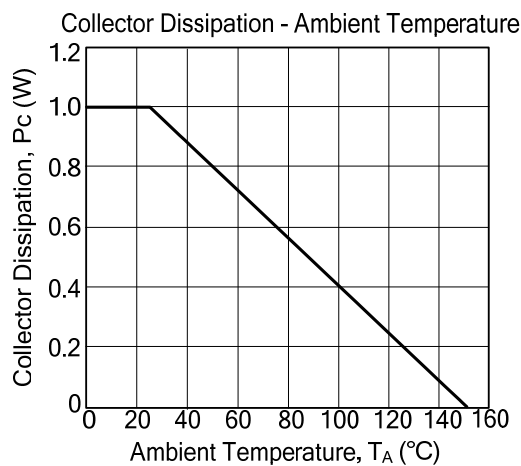
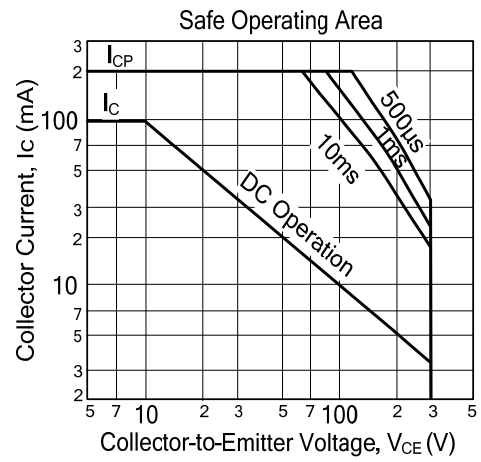
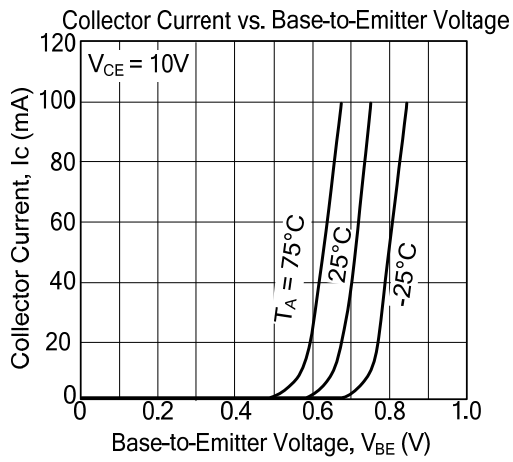
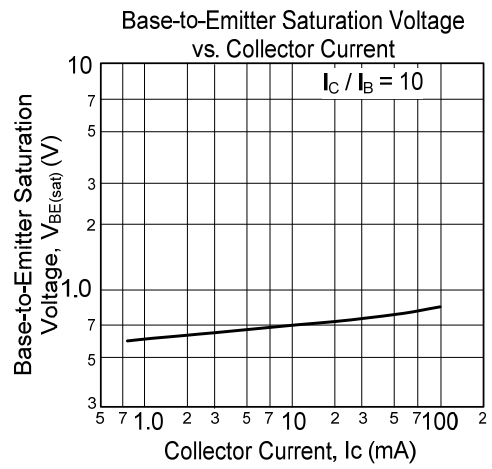
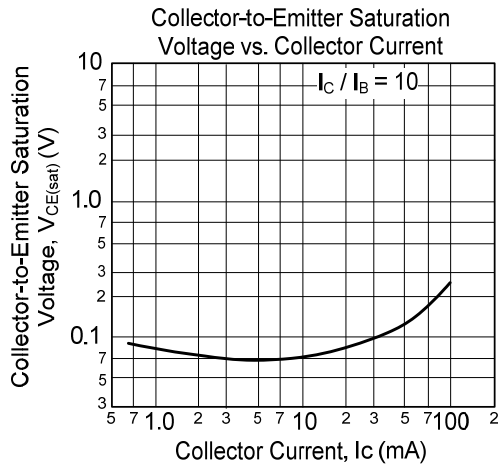
■ CLASSIFICATION of h<sub>FE</sub>

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

## TYPICAL CHARACTERISTICS



## TYPICAL CHARACTERISTICS



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