

SANYO

No.1411C

2SA1352/2SC3416

PNP/NPN Epitaxial Planar Silicon Transistors

High-Definition CRT Display

Video Output Applications

Applications

- Color TV chroma output, high-voltage driver applications

Features

- High breakdown voltage : $V_{CEO} \geq 200V$.
- Small reverse transfer capacitance and excellent high-frequency characteristics :
 $C_{re} = 1.2pF(NPN), 1.7pF(PNP)$
- Adoption of FBET process.

() : 2SA1352

Absolute Maximum Ratings at $T_a = 25^\circ C$

			unit
Collector-to-Base Voltage	V_{CBO}	(-)200	V
Collector-to-Emitter Voltage	V_{CEO}	(-)200	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	1.2	W
		5	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

 $T_c = 25^\circ C$ **Electrical Characteristics at $T_a = 25^\circ C$**

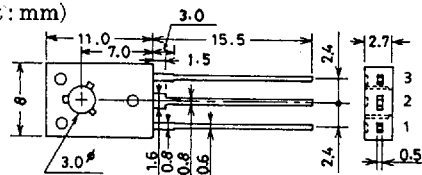
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)150V, I_E = 0$		(-)0.1		μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$		(-)0.1		μA
DC Current Gain	h_{FE}	$V_{CE} = (-)40V, I_C = (-)10mA$	40		320	
Gain Bandwidth Product	f_T	$V_{CE} = (-)30V, I_C = (-)10mA$		70		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)20mA, I_B = (-)2mA$		(-)0.6		V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)20mA, I_B = (-)2mA$		(-)1.0		V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)10\mu A, I_E = 0$	(-)200			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)1mA, R_{BE} = \infty$	(-)200			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-)10\mu A, I_C = 0$	(-)5			V
Output Capacitance	C_{ob}	$V_{CB} = (-)30V, f = 1MHz$		1.7		pF
				(2.6)		pF
Reverse Transfer Capacitance	C_{re}	$V_{CB} = (-)30V, f = 1MHz$		1.2		pF
				(1.7)		pF

※ : The 2SA1352/2SC3416 are classified by 10mA h_{FE} as follows :

40	C	80	60	D	120	100	E	200	160	F	320
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Package Dimensions 2009B

(unit : mm)



JEDEC: TO-126

1: Emitter
2: Collector
3: Base

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