

SANYO

No.2528A

2SA1476/2SC3782

PNP/NPN Epitaxial Planar Silicon Transistor

Ultrahigh-Definition CRT Display
Video Output Applications

Applications

- Video output
- Color TV chroma output
- Wide-band amp

Features

- High f_T (f_T typ=400MHz)
- High breakdown voltage ($V_{CEO} \geq 200V$)
- Small reverse transfer capacitance and excellent high frequency characteristic ($c_{re}=2.1pF$ (NPN), 2.6pF(PNP))
- Complementary PNP and NPN types
- Adoption of FBET process

(): 2SA1476

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}	(-)4	V
Collector Current	I_C	(-)200	mA
Collector Current (Pulse)	I_{CP}	(-)300	mA
Collector Dissipation	P_C	1.5	W
	$T_c=50^\circ C$	15	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

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

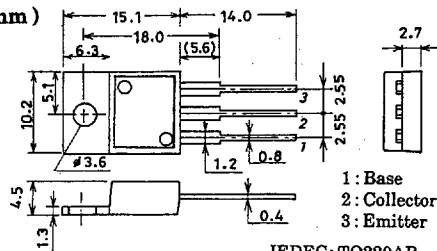
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)150V, I_E=0$			(-)0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)2V, I_C=0$			(-)1.0	μA
DC Current Gain	$h_{FE}(1)$	$V_{CE}=(-)10V, I_C=(-)10mA$	40*		320*	
	$h_{FE}(2)$	$V_{CE}=(-)10V, I_C=(-)100mA$	20			
Gain-Bandwidth Product	f_T	$V_{CE}=(-)30V, I_C=(-)50mA$		400		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)50mA, I_B=(-)5mA$			0.6	V
					(-0.8)	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)50mA, I_B=(-)5mA$			(-)1.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=(-)10\mu A, I_E=0$	(-)200			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=(-)1mA, R_{BF}=\infty$	(-)200			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E=(-)100\mu A, I_C=0$	(-)4			V
Output Capacitance	C_{ob}	$V_{CB}=(-)30V, f=1MHz$		2.6(3.1)		pF
Reverse Transfer Capacitance	C_{re}	$V_{CB}=(-)30V, f=1MHz$		2.1(2.6)		pF

*: The 2SA1476/2SC3782 are classified by 10mA h_{FE} as follows:

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

Package Dimensions 2010C

(unit: mm)



JEDEC: TO220AB
EIAJ : SC46

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