Ordering number: EN3241

NPN Triple Diffused Planar Silicon Transistor



2SC4449

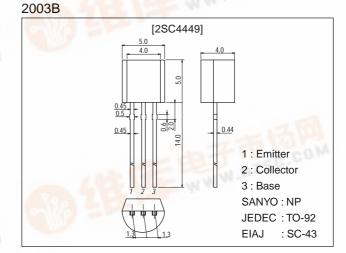
TV Camera Deflection, High-Voltage Driver Applications

Features

- · High breakdown voltage.
- · Small reverse transfer capacitance and excellent high frequency characteristic.
- · Excellent DC current gain.
- · Adoption of FBET process.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		300	V
Collector-to-Emitter Voltage	V _{CEO}		300	V
Emitter-to-Base Voltage	VEBO	100	5	V
Collector Current	IC		50	mA
Collector Current (Pulse)	ICP	The Colon Late	100	mA
Collector Dissipation	PC	AND AND INCH	600	mW
Junction Temperature	Tj	A COLUMN	150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =200V, I _E =0			0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			0.1	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =6V, I _C =0.1mA	100	-	320	
	h _{FE} 2	V _{CE} =6V, I _C =1mA	100		-0.1	10.00
DC Current Gain Ratio	h _{FE} ratio	h _{FE} 1/h _{FE} 2		0.95		
Gain-Bandwidth Product	fT	V _{CE} =30V, I _C =10mA	M.A.	70		MHz

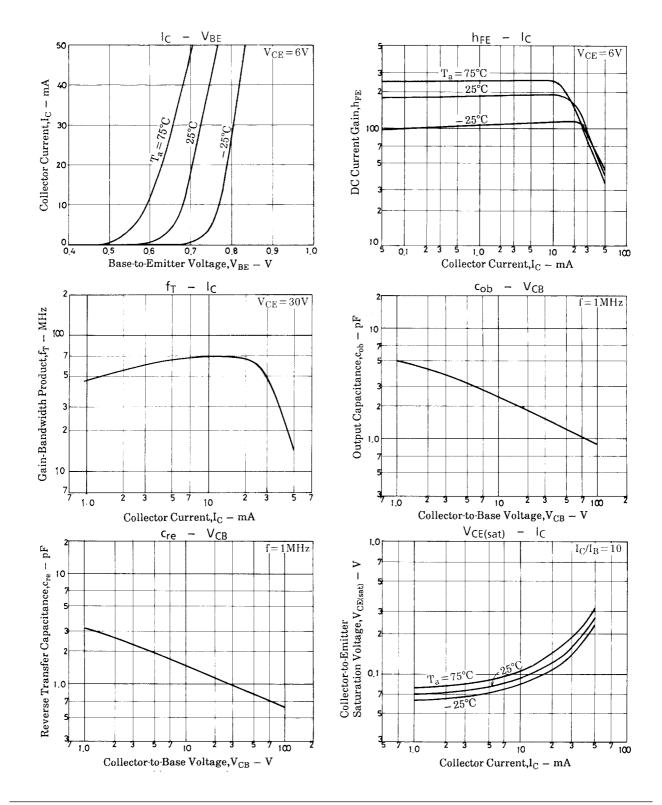
*: The 2SC4449 is classified by 0.1mA h_{FE} as follows:

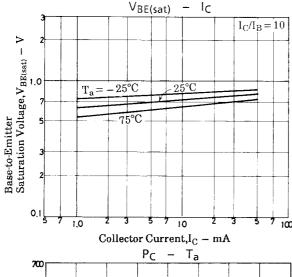
100 E 200 160 F 320

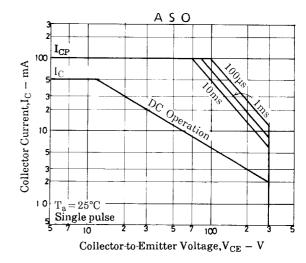
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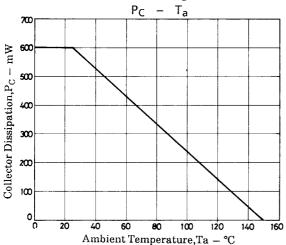
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =10mA, I _B =1mA			1.0	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =10mA, I _B =1mA			1.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	300			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	300			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	5			V
Output Capacitance	C _{ob}	V _{CB} =30V, f=1MHz		1.5		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =30V, f=1MHz		1.0		pF









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