2SC4441



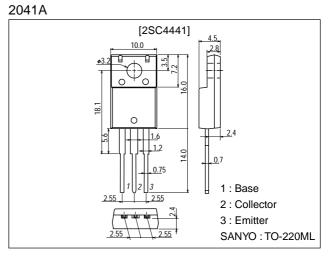
Ultrahigh-Definition Monocuro Display Horizontal Deflection Output Applications

Features

- · High reliability (Adoption of HVP process).
- \cdot Fast switching speed.
- · High breakdown voltage.
- · Wide ASO.
- · Adoption of MBIT process.
- · Micaless package facilitating mounting.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		600	V
Collector-to-Emitter Voltage	VCEO		400	V
Emitter-to-Base Voltage	VEBO		7	V
Collector Current	IC		10	A
Collector Current (Pulse)	I _{CP}	PW≤300µs, Duty Cycle≤10%	20	А
Collector Dissipation	PC		2.0	W
		Tc=25°C	35	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

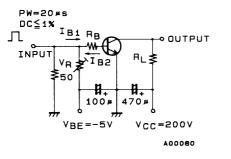
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =400V, I _E =0			10	μA
	ICES	V _{CE} =600V			0.5	mA
Collector-to-Emitter Sastain Voltage	VCEO(sus)	I _C =100mA, I _B =0	400			V
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0			1	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =6A, I _B =1.2A			0.8	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =6A, I _B =1.2A			1.5	V

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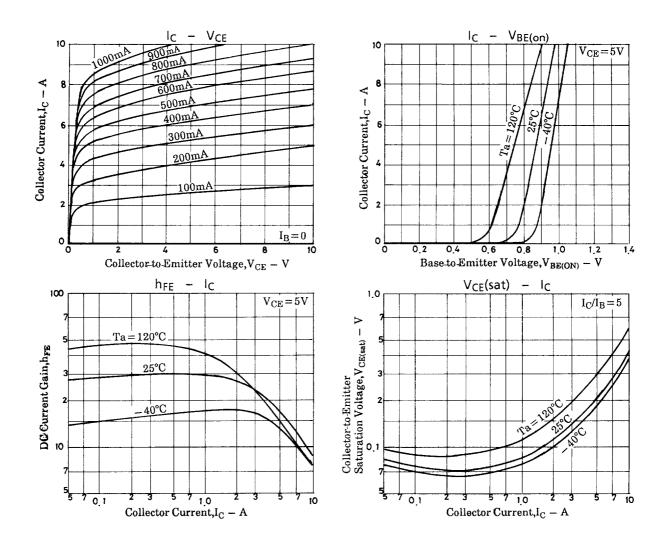
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

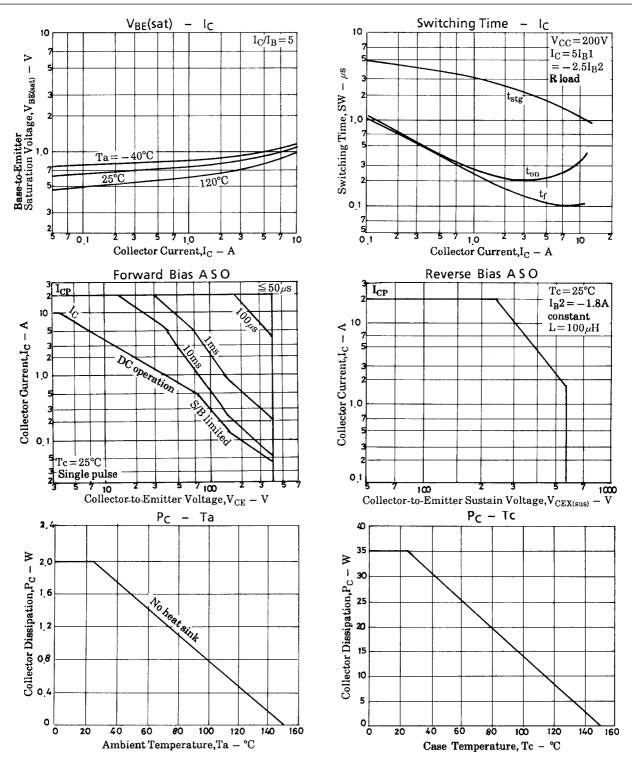
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
DC Current Gain	hFE1	V _{CE} =5V, I _C =1.2A	15			
	h _{FE} 2	V _{CE} =5V, I _C =6A	10		20	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =1.2A		20		MHz
Storage Time	^t stg	I_{C} =7A, I_{B} 1=1.4A, I_{B} 2=–2.8A, R_{L} =28.6 Ω , V_{CC} =200V			3.0	μs
Fall Time	tf	$I_{C}\text{=7A}, I_{B}\text{1=1.4A}, I_{B}\text{2=-2.8A}, R_{L}\text{=28.6}\Omega, V_{CC}\text{=200V}$			0.2	μs

Switching Time Test Circuit



Unit (resistance: Ω , capacitance:F)





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