

2SC4441

Ultrahigh-Definition Monocuro Display Horizontal Deflection Output Applications

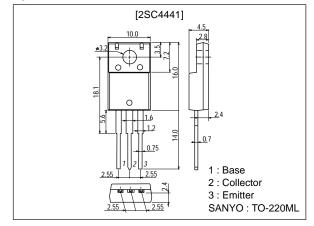
Features

- · High reliability (Adoption of HVP process).
- · High-speed switching.
- · High breakdown voltage.
- · Wide ASO.
- · Adoption of MBIT process.
- · Attachment workability is good by Mica-less package.

Package Dimensions

unit:mm

2041A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		600	V
Collector-to-Emitter Voltage	VCEO		400	V
Emitter-to-Base Voltage	V _{EBO}		7	V
Collector Current	lс		10	Α
Collector Current (Pulse)	I _{CP}	PW≤300μs, Duty Cycle≤10%	20	Α
Collector Dissipation	Po		2.0	W
	PC	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	Offit
Collector Cutoff Current	I _{CBO}	V _{CB} =400V, I _E =0			10	μΑ
	ICES	V _{CE} =600V			0.5	mA
Collector-to-Emitter Sustain Voltage	V _{CEO(sus)}	I _C =100mA, I _B =0	400			V
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			1	mA
Collector-to-Emitter Saturation Voltage	V _{CE(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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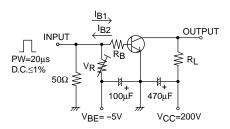
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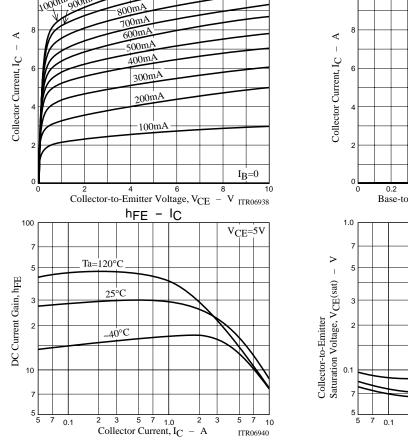
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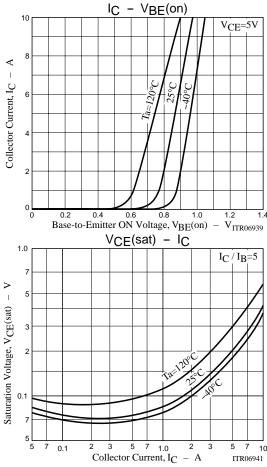
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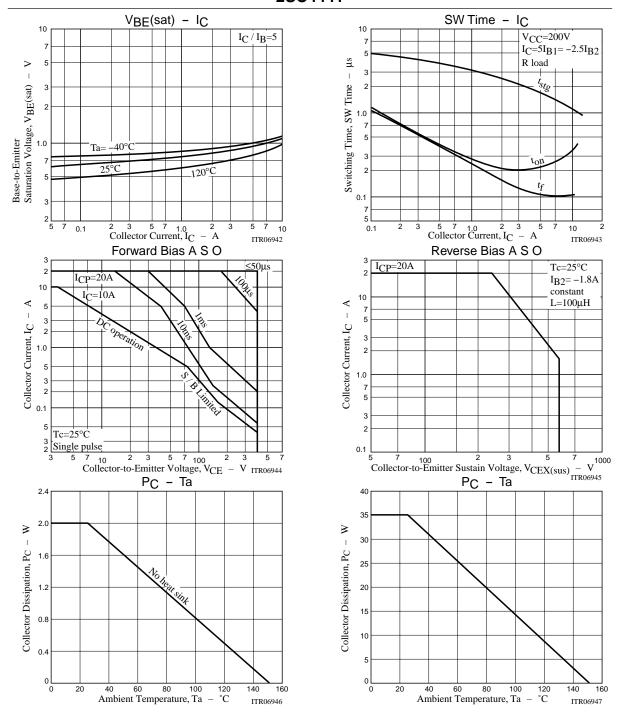
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O IIII
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1.2A	15			
	h _{FE} 2	V _{CE} =5V, I _C =6A	10		20	
Gain-Bandwidth Product	fŢ	V _{CE} =10V, I _C =1.2A		20		MHz
Storage Time	t _{stg}	I _C =7A, I _B 1=1.4A, I _B 2=–2.8A, R _L =28.6Ω, V _{CC} =200V			3.0	μs
Fall Time	t _f	I_{C} =7A, I_{B} 1=1.4A, I_{B} 2=-2.8A, R_{L} =28.6 Ω , V_{CC} =200 V			0.2	μs

Switching Time Test Circuit









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