

TT2138LS

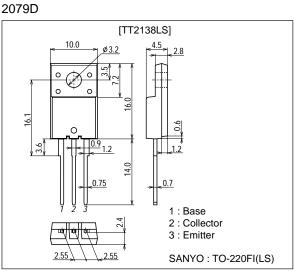
Color TV Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage (VCBO=1500V).
- High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

Package Dimensions

unit : mm



Specifications

Absolute Maximum Ratings at Ta= $25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		3.5	Α
Collector Current (Pulse)	ICP		9	А
Collector Dissipation	De		2.0	W
	PC	Tc=25°C	25	W
Junction Temperature	Тј		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} =800V, I _E =0			10	μΑ
Collector Cutoff Current	ICES	VCE=1500V, RBE=0			1.0	mA
Collector Sustain Voltage	V _{CEO} (sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0	40		130	mA

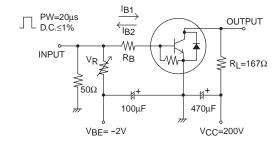
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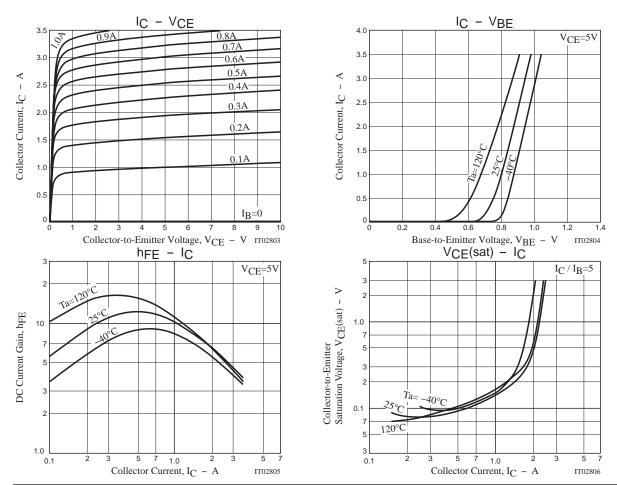
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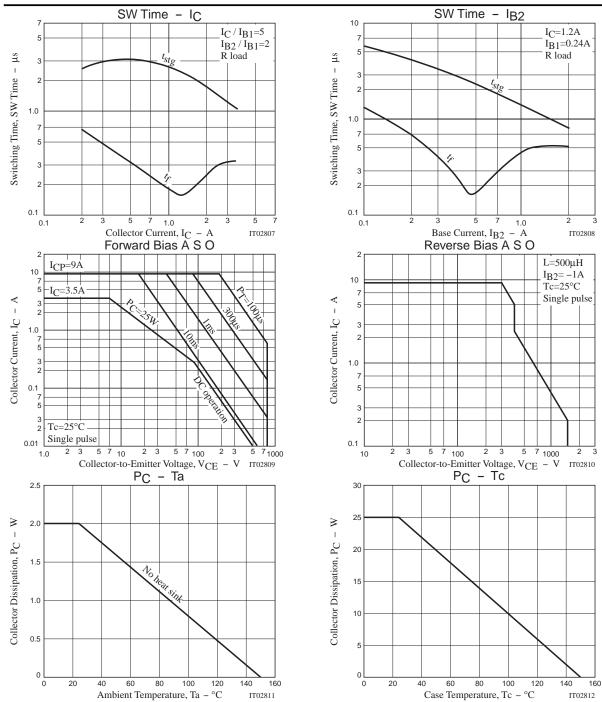
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN Continued from preceding page.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=1.8A, IB=0.36A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=1.8A, IB=0.36A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=0.5A	5			
	hFE2	V _{CE} =5V, I _C =2A	5		8	
Diode Forward Voltage	VF	IEC=3A			2	V
Fall Time	tf	I _C =1.2A, I _{B1} =0.24A, I _{B2} =-0.48A			0.3	μs

Switching Time Test Circuit







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