NPN Triple Diffused Planar Silicon Transistor



2SC4633LS

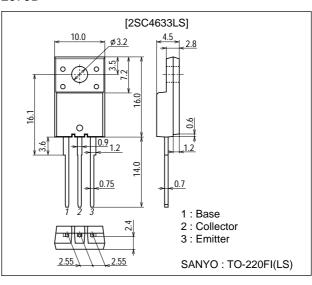
1200V / 30mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- High breakdown voltage(VCEO min=1200V).
- Small Cob(typical Cob=2.0pF).
- Full-isolation package.
- High reliability(Adoption of HVP process).

Package Dimensions

unit : mm 2079D



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		1200	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		30	mA
Collector Current (Pulse)	ICP		100	mA
Collector Dissipation	PC		2	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

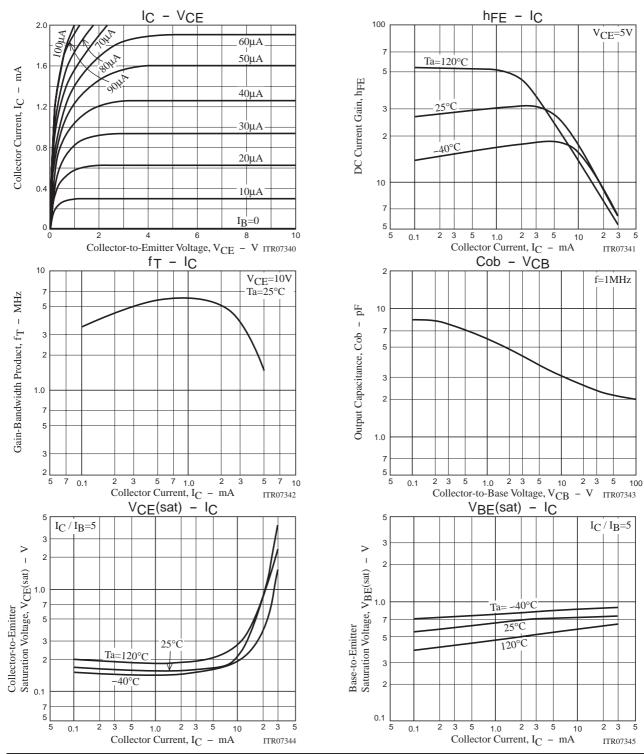
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =1200V, I _E =0			1	μΑ
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			1	μA
DC Current Gain	hFE	V _{CE} =5V, I _C =1.5mA	10		60	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =1.5mA		6		MHz

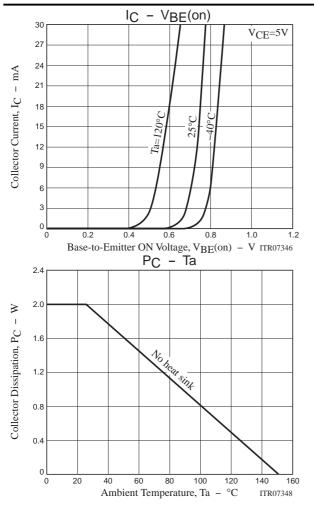
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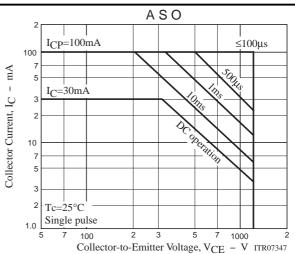
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	IC=3mA, IB=0.6mA			5	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=3mA, IB=0.6mA			2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC=100μA, IE=0	1500			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=1mA, RBE=∞	1200			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =100μA, I _C =0	5			V
Output Capacitance	Cob	V _{CB} =100V, f=1MHz		2.0		pF
Thermal Resistance	Rthj-c	Junction – case			8.3	°C / W







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