

2SC4637LS

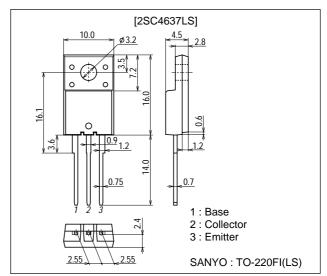
1800V / 15mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- High breakdown voltage(VCEO min=1800V).
- Small Cob(typical Cob=1.8pF).
- · 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		2000	V
Collector-to-Emitter Voltage	VCEO		1800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		15	mA
Collector Current (Pulse)	ICP		50	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} =1800V, I _E =0			1	μΑ
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			1	μΑ
DC Current Gain	hFE	V _{CE} =5V, I _C =300μA	10		60	
Gain-Bandwidth Product	fΤ	V _{CE} =10V, I _C =300μA		6		MHz

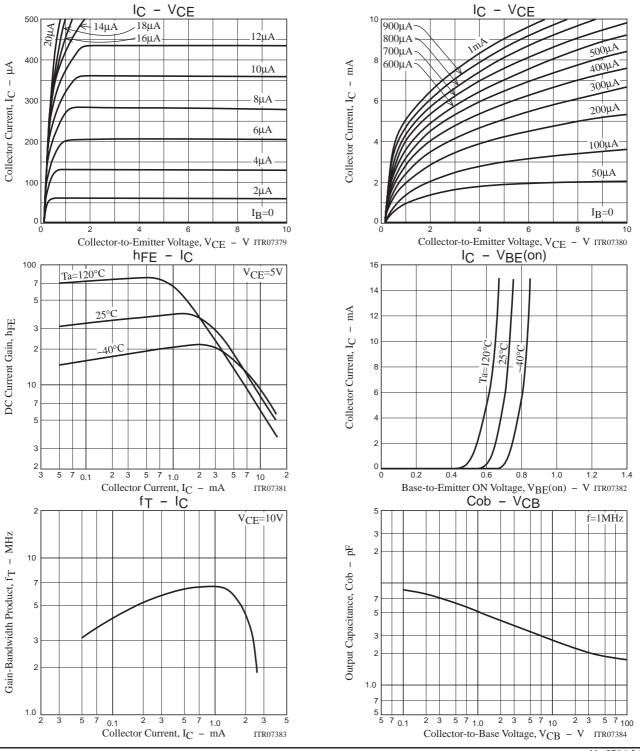
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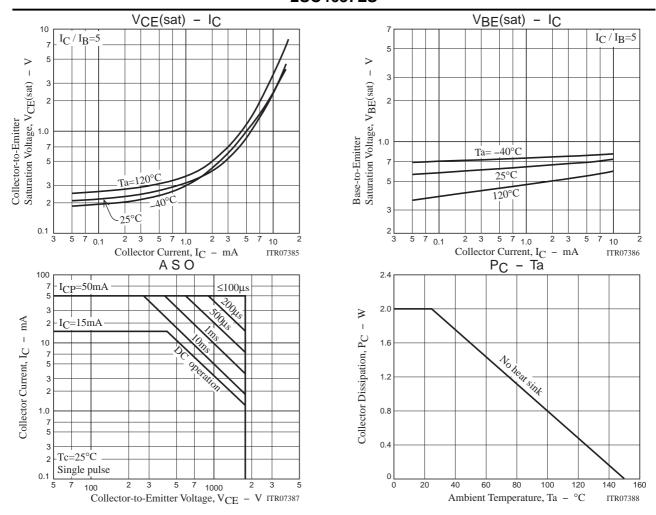
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =600μA, I _B =120μA			5	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =600μA, I _B =120μA			2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	IC=100μA, IE=0	2000			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =100μA, R _{BE} =∞	1800			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	5			V
Output Capacitance	Cob	V _{CB} =100V, f=1MHz		1.8		pF
Thermal Resistance	Rthj-c	Junction – case			8.3	°C/W



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