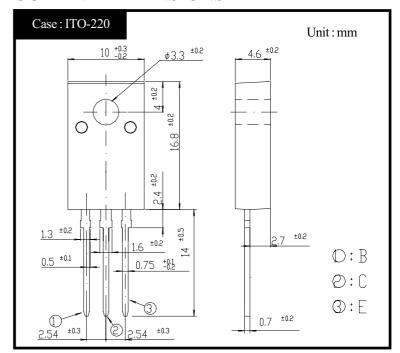
2SA1601 (TP15T4)

-15A PNP

OUTLINE DIMENSIONS



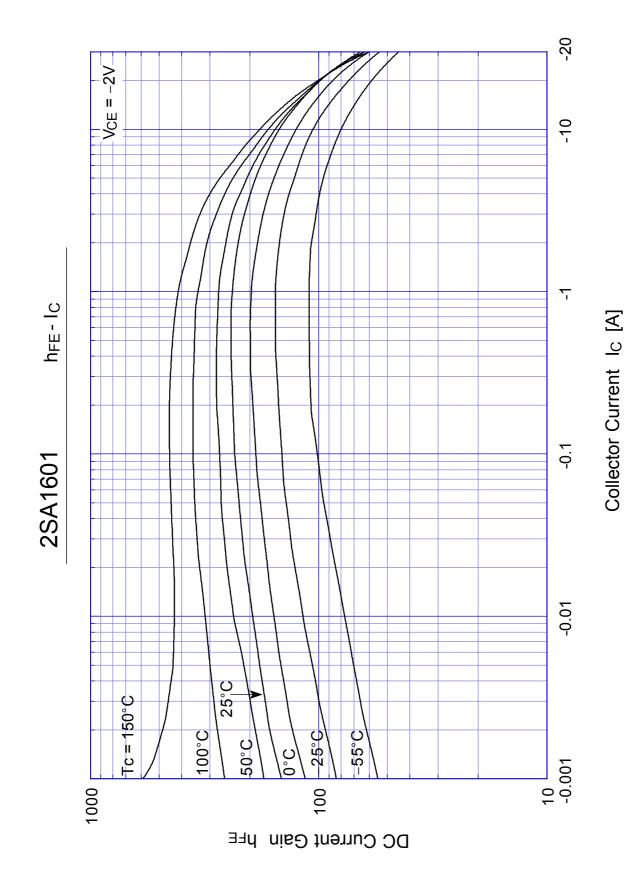
RATINGS

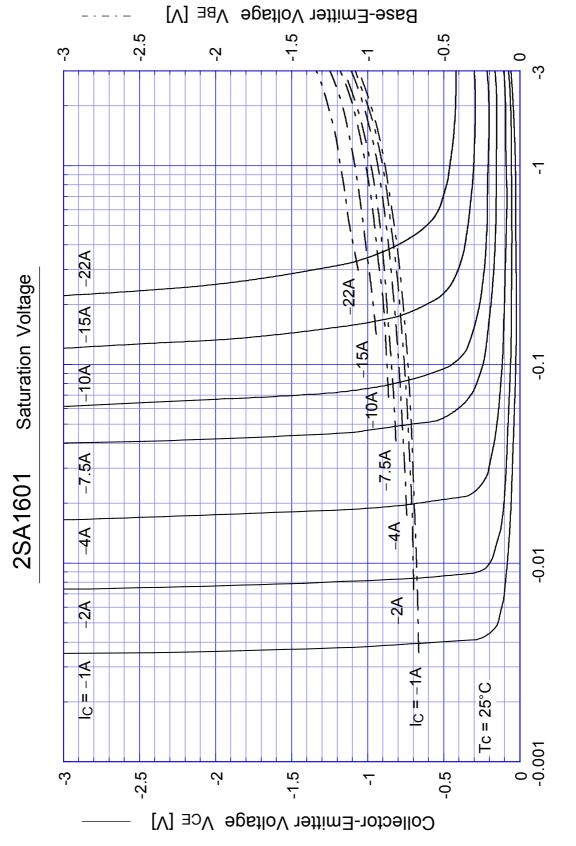
■Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	$^{\circ}\!\mathbb{C}$
Junction Temperature	Tj		150	$^{\circ}\!\mathbb{C}$
Collector to Base Voltage	V_{cbo}		-60	V
Collector to Emitter Voltage	V_{ceo}		-40	V
Emitter to Base Voltage	V_{EBO}		-7	V
Collector Current DC	I _C		-15	Α
Collector Current Peak	I _{CP}		-30	Α
Base Current DC	\mathbf{I}_{B}		-2	Α
Base Current Peak	\mathbf{I}_{BP}		-3	Α
Total Transistor Dissipation	P_{T}	Tc = 25℃	45	W
Dielectric Strength	Vdis	Terminal to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque: 0.3N·m)	0.5	N∙m

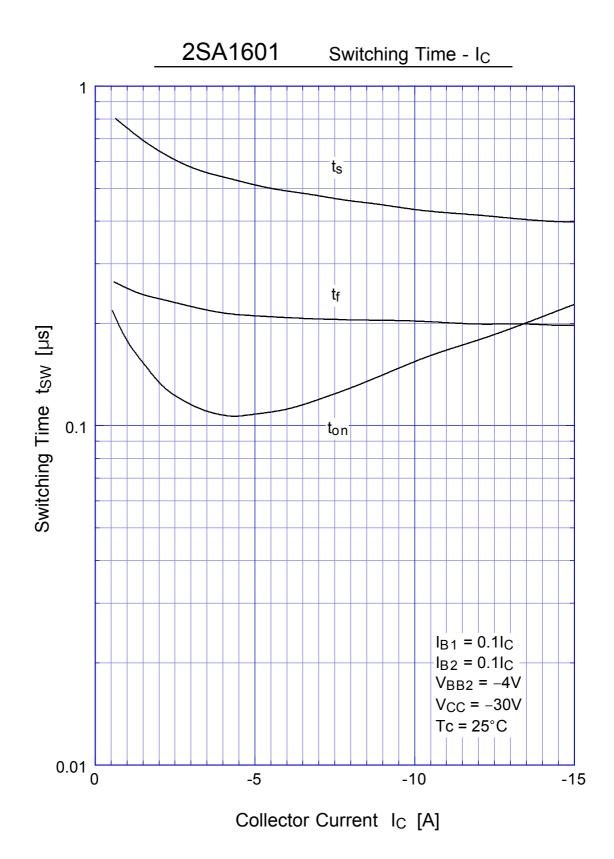
● Electrical Characteristics (Tc=25°C)

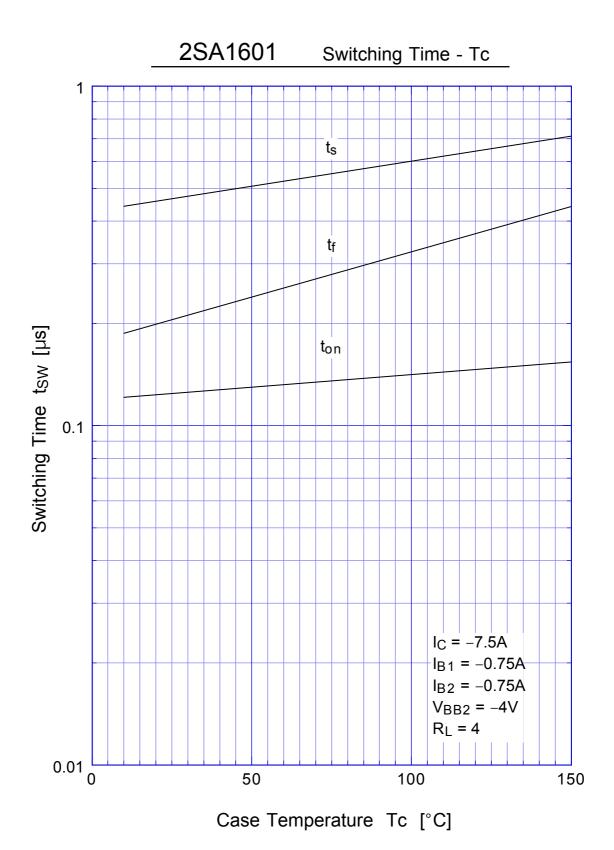
<u>Item</u>	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	$ m V_{CEO}(sus)$	$I_{C} = -0.1A$	Min -40	V
Collector Cutoff Current	$I_{ exttt{CBO}}$	At rated Voltage	Max −0.1	mA
	$I_{ exttt{CEO}}$		Max −0.1	
Emitter Cutoff Current	$\mathbf{I}_{\mathrm{EBO}}$	At rated Voltage	Max −0.1	mΑ
DC Current Gain	h_{FE}	$V_{CE} = -2V, I_{C} = -7.5A$	M in 70	
Collector to Emitter Saturation Voltage	$V_{ extsf{CE}}(extsf{sat})$	$I_{C} = -7.5A$	Max −0.3	V
Base to Emitter Saturation Voltage	$V_{ m BE}({\sf sat})$	$I_{\rm B} = -0.4$ A	Max −1.2	V
Thermal Resistance	θ jc	Junction to case	Max 2.77	$^{\circ}$ C/W
Transition Frequency	f_{T}	$V_{CE} = -10V$, $I_{C} = -1.5A$	TYP 50	MHz
Turn on Time	ton		Max 0.3	
		$I_{C} = -7.5A$		
Storage Time	ts	$I_{B1} = -0.75A, I_{B2} = -0.75A$	Max 1.5	μ s
		R_L = 4Ω , V_BB2 = $-4V$		
Fall Time	tf	7	Max 0.5	

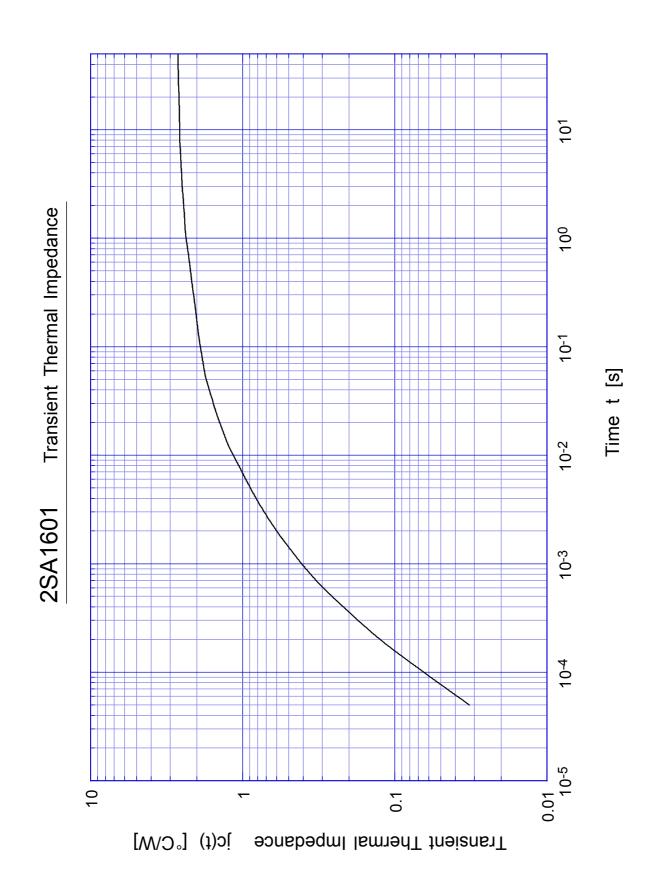


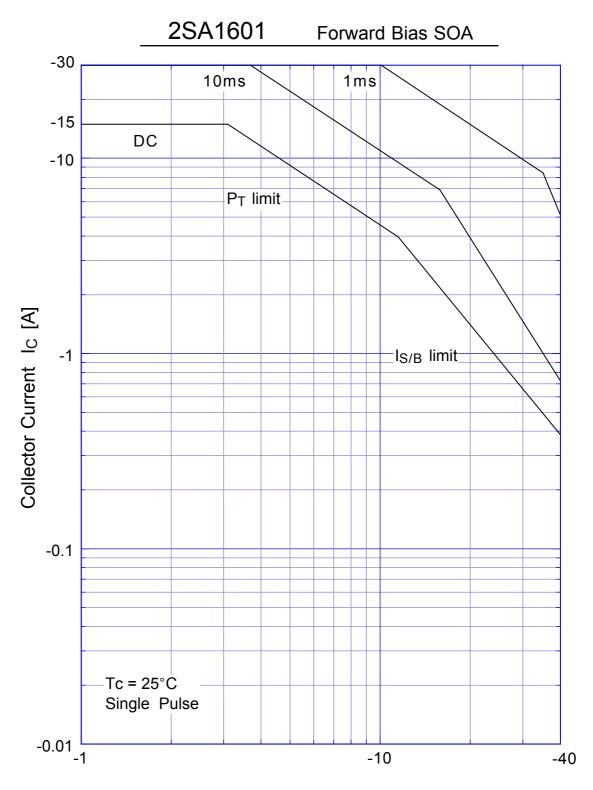


Base Current IB [A]









Collector-Emitter Voltage V_{CE} [V]

