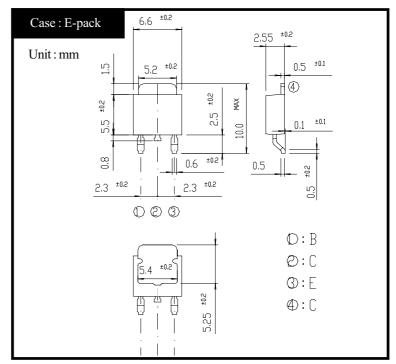
Switching Power Transistor

2SC4668 (TE7S4)

7A NPN

OUTLINE DIMENSIONS



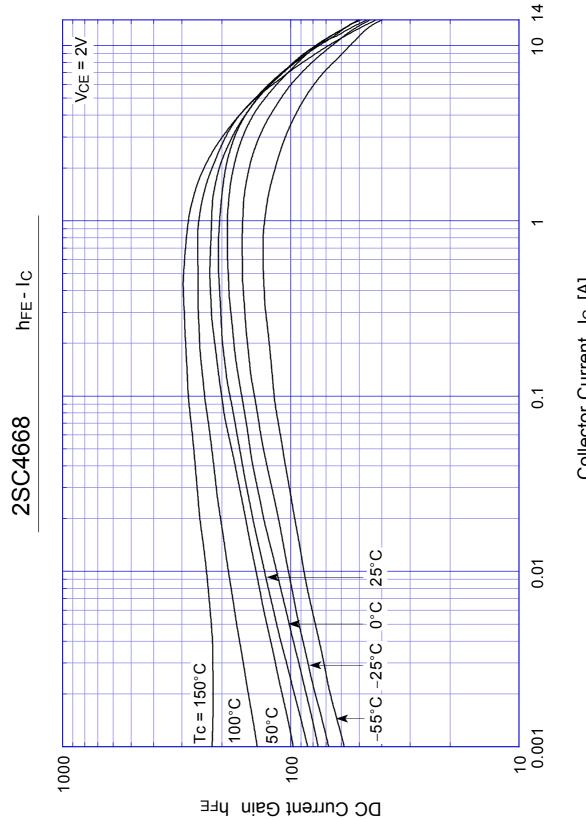
RATINGS

Absolute Maximum Ratings

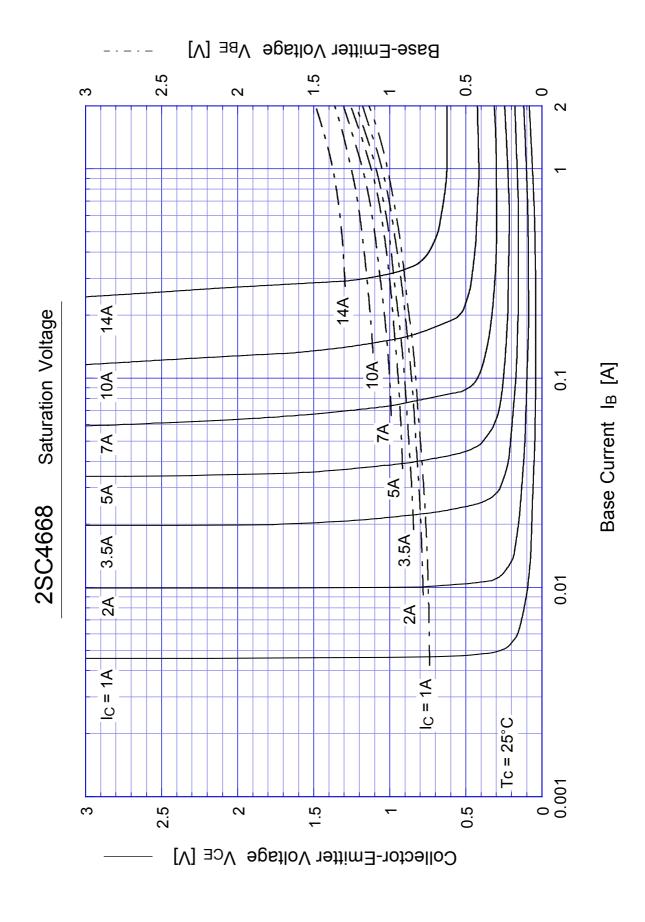
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55~150	$^{\circ}\!\mathbb{C}$
Junction Temperature	Tj		150	$^{\circ}$ C
Collector to Base Voltage	V_{cbo}		60	V
Collector to Emitter Voltage	V_{ceo}		40	V
Emitter to Base Voltage	V_{EBO}		7	V
Collector Current DC	I _C		7	Α
Collector Current Peak	I _{CP}		14	Α
Base Current DC	\mathbf{I}_{B}		1.5	Α
Base Current Peak	\mathbf{I}_{BP}		2	Α
Total Transistor Dissipation	P _T T	°c = 25°C	10	W

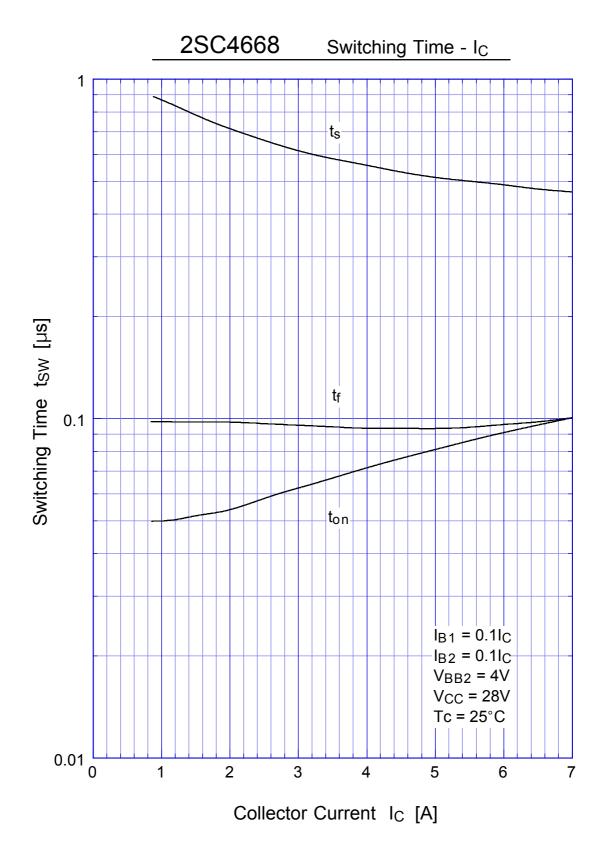
• Electrical Characteristics (Tc=25°C)

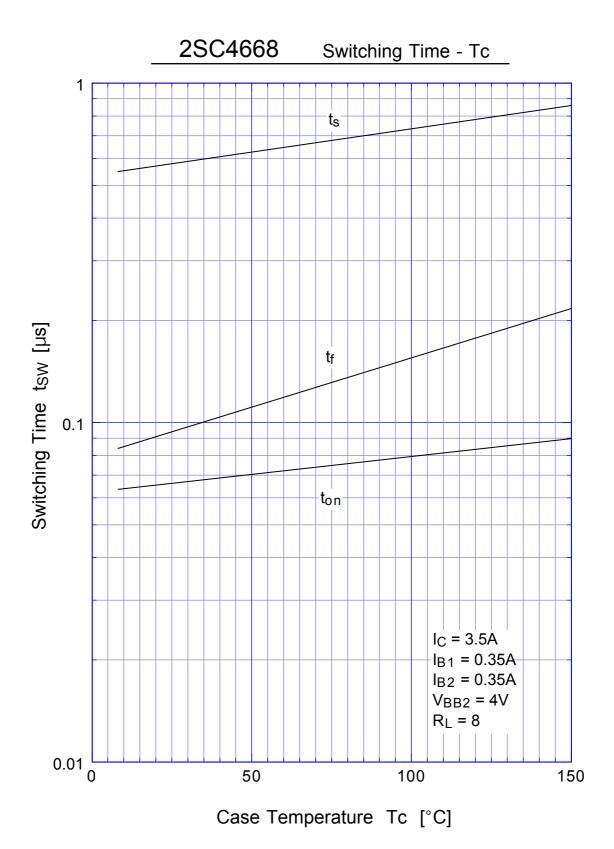
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	V _{CEO} (sus)	$I_C = 0.1A$	Min 40	V
Collector Cutoff Current	$I_{ exttt{CBO}}$	At rated Voltage	Max 0.1	mA
	$I_{ exttt{CEO}}$		Max 0.1	
Emitter Cutoff Current	$\mathbf{I}_{\mathrm{EBO}}$	At rated Voltage	Max 0.1	mA
DC Current Gain	$h_{ ext{FE}}$	$V_{CE} = 2V, I_{C} = 3.5A$	M in 70	
Collector to Emitter Saturation Voltage	$V_{ extsf{CE}}(extsf{sat})$	$I_{C} = 3.5A$	Max 0.3	V
Base to Emitter Saturation Voltage	$ m V_{BE}\!(sat)$	$I_{\rm B} = 0.2$ A	Max 1.2	V
Thermal Resistance	θ jc	Junction to case	Max 12.5	°C/W
Transition Frequency	f_{T}	$V_{CE} = 10V, I_{C} = 0.7A$	TYP 50	$\mathbf{M}\mathrm{Hz}$
Turn on Time	ton		Max 0.3	
		$I_{C} = 3.5A$		
Storage Time	ts	$I_{B1} = 0.35A, I_{B2} = 0.35A$	Max 1.5	μ s
		R_L = 8Ω , V_BB2 = $4V$		
Fall Time	tf	7	Max 0.5	

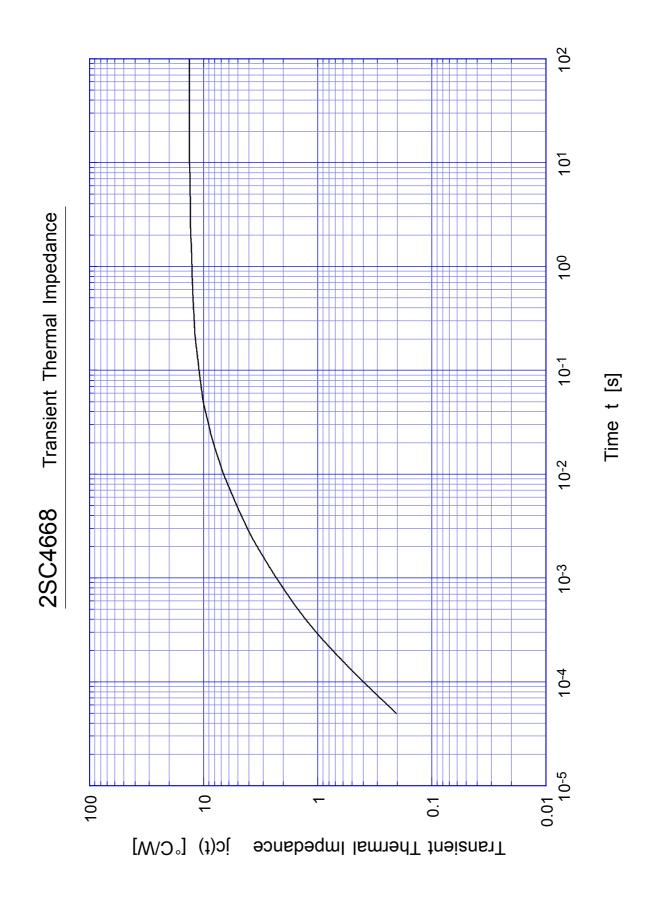


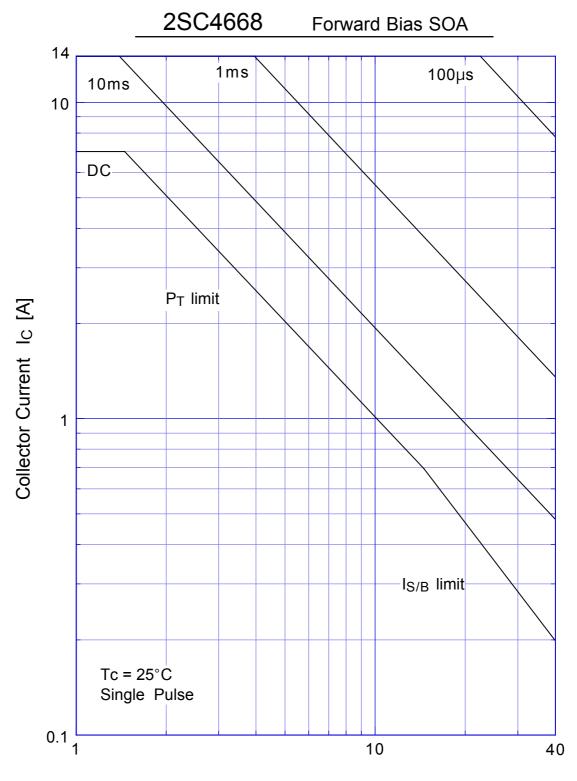
Collector Current Ic [A]











Collector-Emitter Voltage V_{CE} [V]

