



Pin Definition:

1. Base 2. Collector

3. Emitter

PRODUCT SUMMARY

BV _{CBO}	-560V
BV _{CEO}	-560V
I _C	-150mA
V _{CE(SAT)}	-0.5V @ I _C =-50mA,I _B =-10mA

Ordering Information

Part No.	Package	Packing
TSA1765CW RPG	SOT-223	2.5Kpcs / 13" Reel

Note: "G" denotes for Halogen Free

Structure Epitaxial Planar Type •

Features

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PNP Silicon Transistor •

Low Saturation Voltages

High Breakdown Voltage

Absolute Maximum Rating (Ta = 25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	-560	V
Collector-Emitter Voltage	VCEO	-560	V
Emitter-Base Voltage	VEBO	-7	V
Collector Current	lc	-150	
Collector Current(Pulse)	I _{CP}	-500	mA
Base Current	Ι _Β	-50	
Total Power Dissipation @ T _C =25°C	P _{tot}	2	W
Operating Junction Temperature	TJ	+150	°C
Operating Junction and Storage Temperature Range	T _{STG}	- 55 to +150	°C

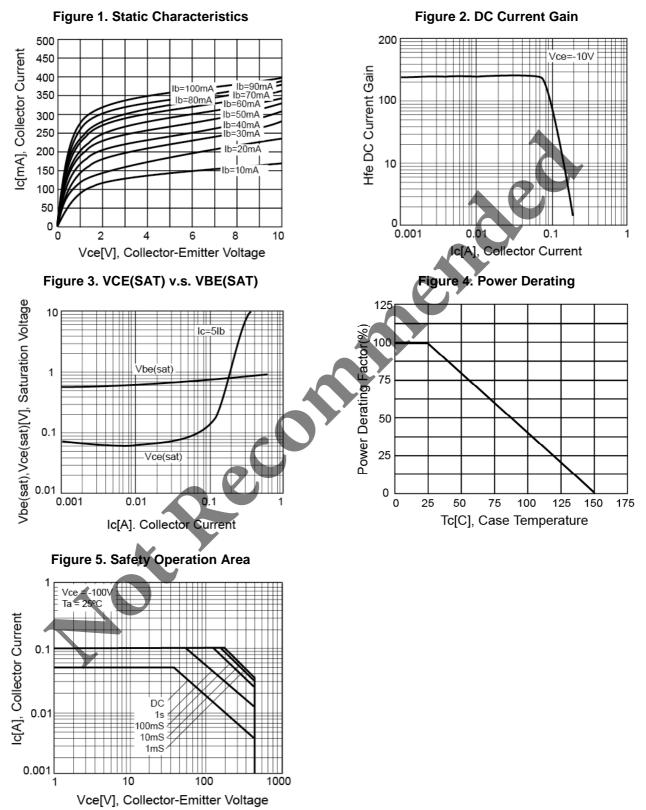
Electrical Specifications (Ta = 25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	rl _c = −1mA, l _E = 0	BV _{CBO}	-560			V
Collector-Emitter Breakdown Voltage	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	BV _{CEO}	-560			V
Emitter-Base Breakdown Voltage	$I_{E} = -10 uA, I_{C} = 0$	BV_{EBO}	-7			V
Collector Cutoff Current	$V_{CB} = -560V, I_E = 0$	I _{CBO}			-100	nA
Emitter Cutoff Current	$V_{EB} = -7V, I_{C} = 0$	I _{EBO}			-100	nA
Collector-Emitter Saturation Voltage	I _C = -20mA, I _B = -2mA	V _{CE(SAT)} 1			-0.2	V
	I _C = -50mA, I _B = -10mA	V _{CE(SAT)} 2			-0.5	
Base-Emitter Saturation Voltage	I _C = -50mA, I _B = -10mA	V _{BE(SAT)} 1			-1.0	V
Base-Emitter on Voltage	$V_{CE} = -10V, I_{C} = -50mA$	V _{BE(ON)}			-1.0	V
DC Current Transfer Ratio	$V_{CE} = -10V, I_{C} = -1mA$	h _{FE} 1	150			
	$V_{CE} = -10V, I_{C} = -50mA$	h _{FE} 2	80		300	
	$V_{CE} = -10V, I_{C} = -100mA$	h _{FE} 3		15		
Transition Frequency	$V_{CE} = -20V, I_{E} = -10mA$	f⊤	50			MHz
Output Capacitance	V_{CB} = -20V, f=1MHz	Cob			8	pF



TSA1765 High Voltage PNP Epitaxial Planar Transistor

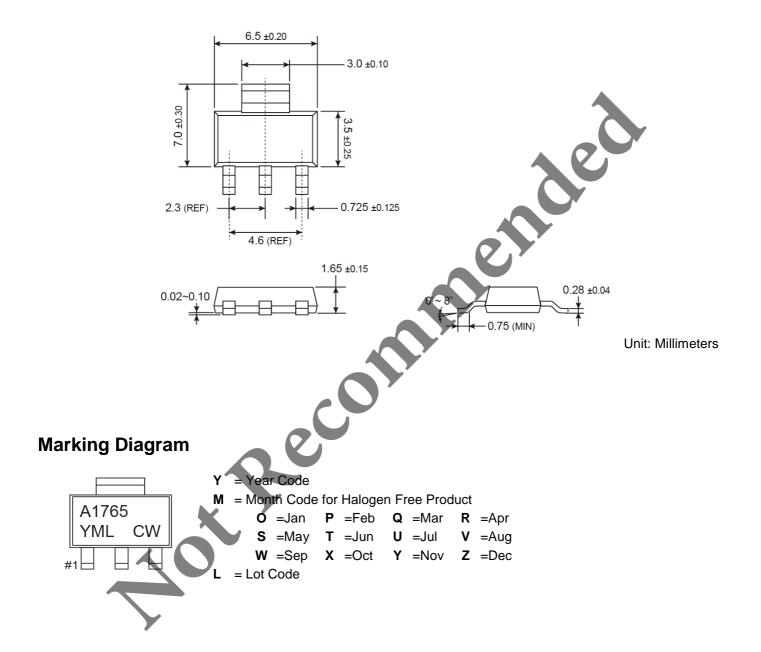
Electrical Characteristics Curve (Ta = 25°C, unless otherwise noted)



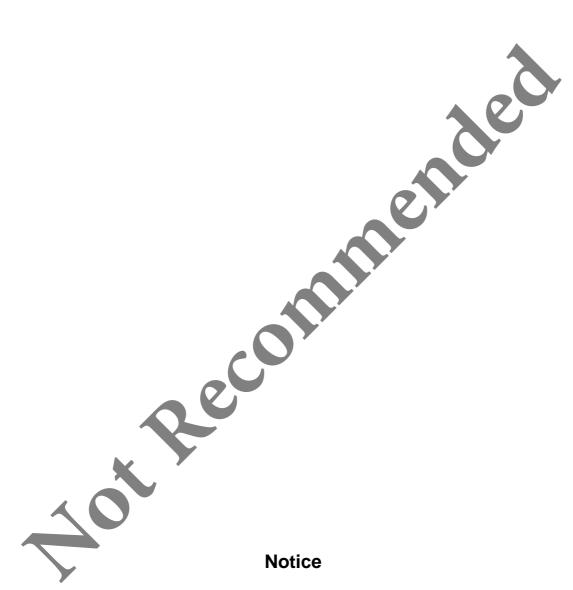


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SOT-223 Mechanical Drawing







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