

/ Descriptions

WR0553 ММ SQS æ M ç s ll 1 Silicon PNP transistor in a TO-220 Plastic Package.

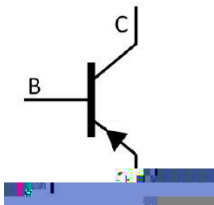
/ Features

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 High DC current gain, High V_{CEO} , High f_T , Complementary pair with MJE15036.

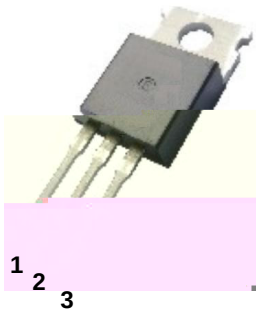
/ Applications

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 Designed for us as high-frequency drivers in audio amplifiers.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

M ç " See Marking Instructions.


1 Absolute Maximum Ratings(Ta=25℃)

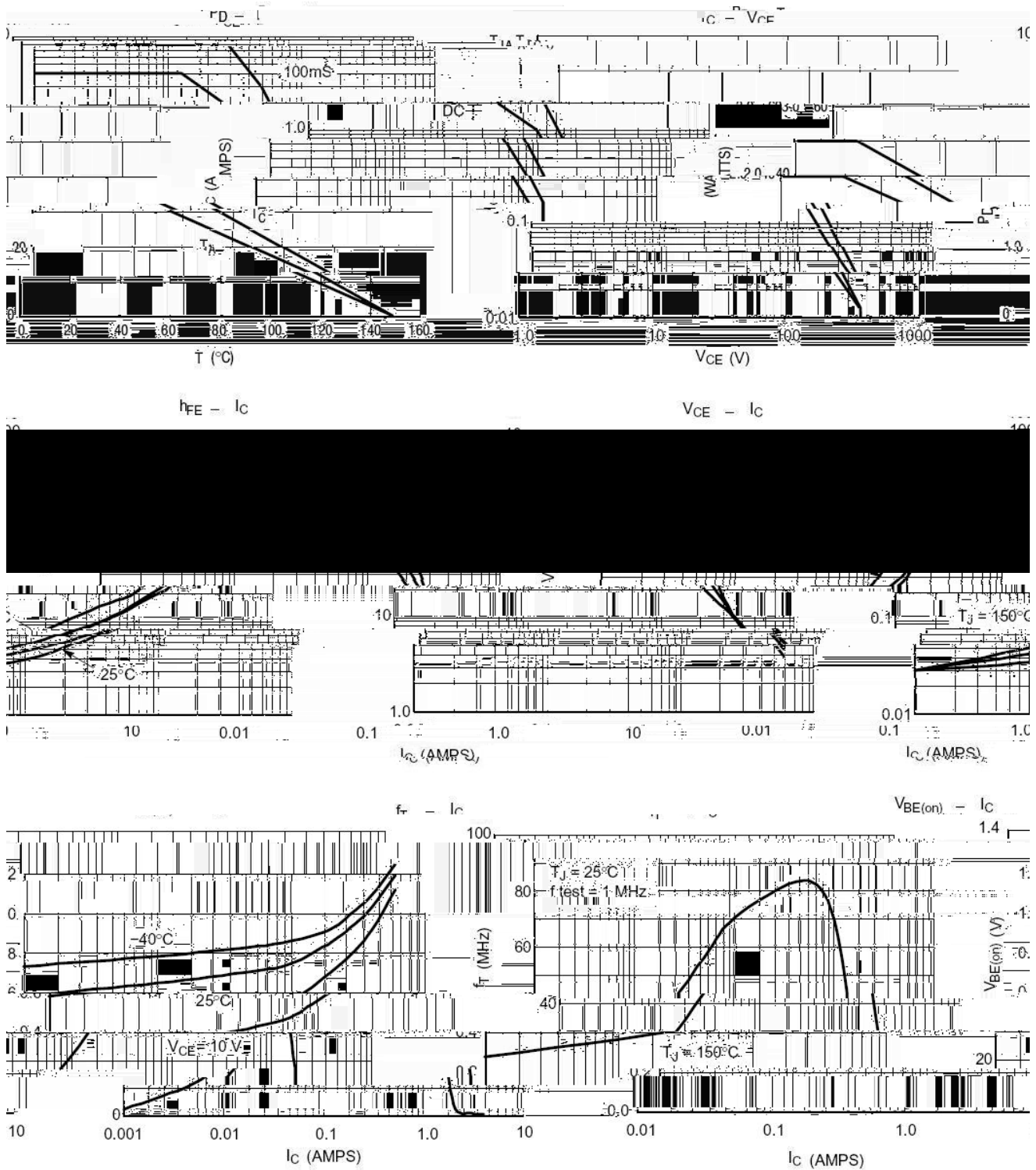
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-350	V
Collector to Emitter Voltage	V_{CEO}	-350	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-8	A
Base Current - Continuous	I_B	-2	A
Collector Power Dissipation	P_D	2	W
	$P_D(T_C=25^\circ\text{C})$	80	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-65 ~ 150	
Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.5	/W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	62.5	/W

2 Electrical Characteristics(Ta=25℃)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$*V_{CEO}$	$I_C=-10\text{mA}$ $I_B=0$	-350			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-350\text{V}$ $I_E=0$			-30	μA
Emitter Cut-Off Current	I_{EBO}	$V_{BE}=-5\text{V}$ $I_C=0$			-30	μA
DC Current Gain	$*h_{FE(1)}$	$V_{CE}=-5\text{V}$ $I_C=-0.5\text{A}$	100		500	
	$*h_{FE(2)}$	$V_{CE}=-5\text{V}$ $I_C=-0.1\text{A}$	100			
	$*h_{FE(3)}$	$V_{CE}=-5\text{V}$ $I_C=-1\text{A}$	5			
	$h_{FE(4)}$	$V_{CE}=-5\text{V}$ $I_C=-2\text{A}$	10			
Collector to Emitter Saturation Voltage	$*V_{CE(sat)}$	$I_C=-1\text{A}$ $I_B=0.1\text{A}$			-0.5	V
Base to Emitter On Voltage	$*V_{BE(on)}$	$V_{CE}=5\text{V}$ $I_C=-1\text{A}$			-1	V
Transition Frequency	f_T	$V_{CE}=-10\text{V}$ $I_C=-500\text{mA}$ $f=1\text{MHz}$	30			MHz

① $V_{CE}=-10\text{V}$ $I_C=-1\text{A}$ $I_B=0$ $f=1\text{MHz}$ *Pulse Test: Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$.

/ Electrical Characteristic Curve



Technical drawing of a roof plan. The drawing shows a rectangular building footprint with dimensions A, B, and C. The drawing includes a north arrow pointing towards the top right, a scale bar, and various annotations including '3°' and 'C1'. The drawing is partially obscured by a large black redaction box.

Lot No. Code, code change with Lot No.

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