MJE15039

Rev. C Oct.-2018

DATA SHEET

/ Descriptions

WR0553 ṂṂ Ꝉ SQS ÆṀ ч s ‖ ᒣ 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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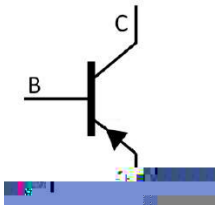
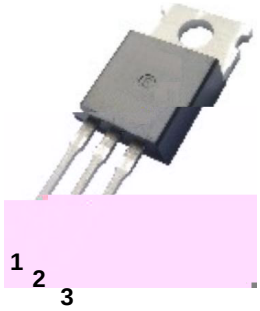
Designed for us as high-frequency drivers in audio amplifiers.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

ծ м Ⴤ ب ˝ See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

v ̈Ọ Parameter	ϒ N Symbol	̈Ọ Ö Rating	D Ꮋ 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(Tc=25)	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

/ Electrical Characteristics(Ta=25)

v ̈Ọ Parameter	ϒ N Symbol	⅄ :ϯ ϒ Test Conditions	ώ ṇ Ö Min	Ɛ ʒ Ö Typ	ώ ᶻ Ö Max	D Ꮋ Unit
Collector to Emitter Breakdown Voltage	*V_{CEO}	I_C=-10mA I_B=0	-350			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-350V I_E=0			-30	μA
Emitter Cut-Off Current	I_{EBO}	V_{BE}=-5V I_C=0			-30	μA
DC Current Gain	*$h_{FE(1)}$	V_{CE}=-5V I_C=-0.5A	100		500	
	*$h_{FE(2)}$	V_{CE}=-5V I_C=-0.1A	100			
	*$h_{FE(3)}$	V_{CE}=-5V I_C=-1A	5			
	$h_{FE(4)}$	V_{CE}=-5V I_C=-2A	10			
Collector to Emitter Saturation Voltage	*$V_{CE(sat)}$	I_C=-1A I_B=0.1A			-0.5	V
Base to Emitter On Voltage	*$V_{BE(on)}$	V_{CE}=5V I_C=-1A			-1	V
Transition Frequency	f_T	V_{CE}=-10V I_C=-500mA f=1MHz	30			MHz

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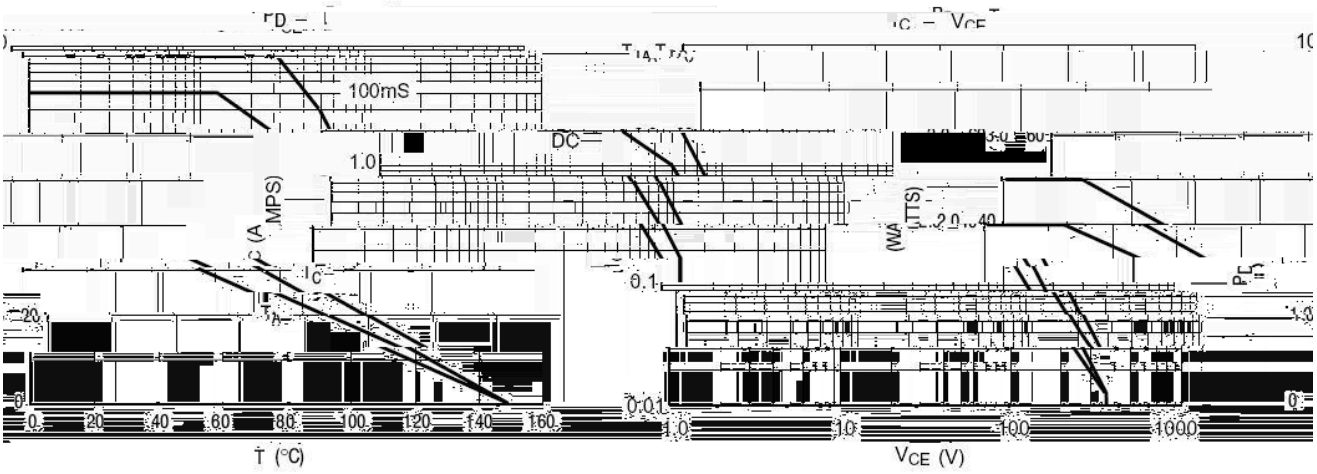
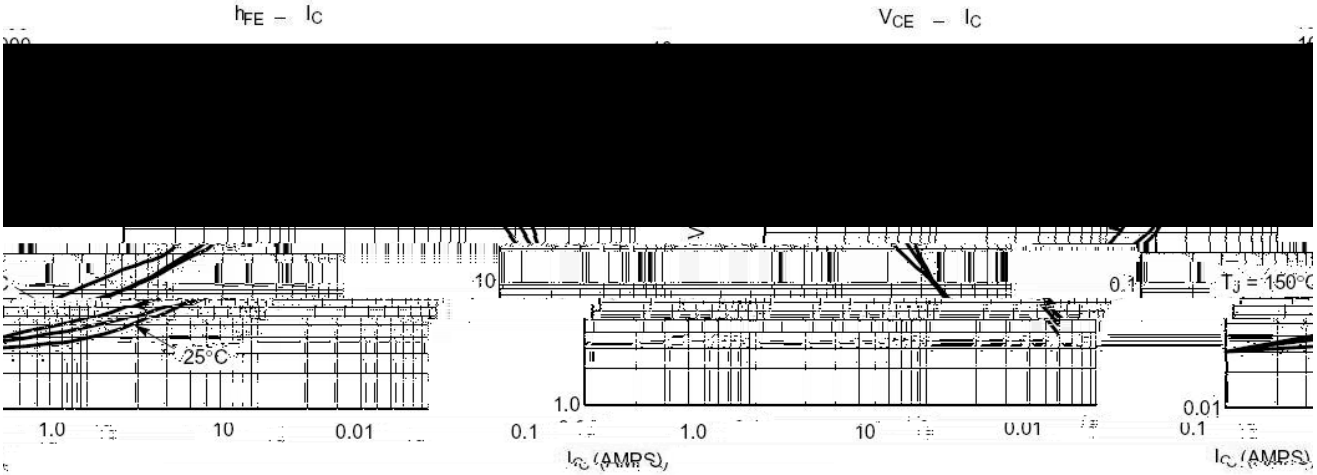
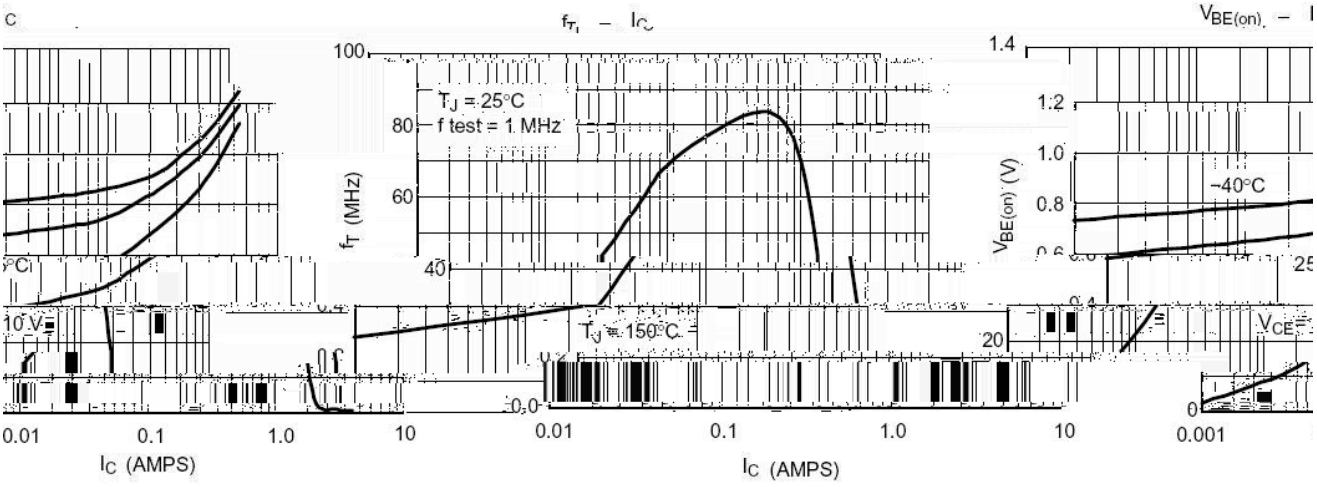
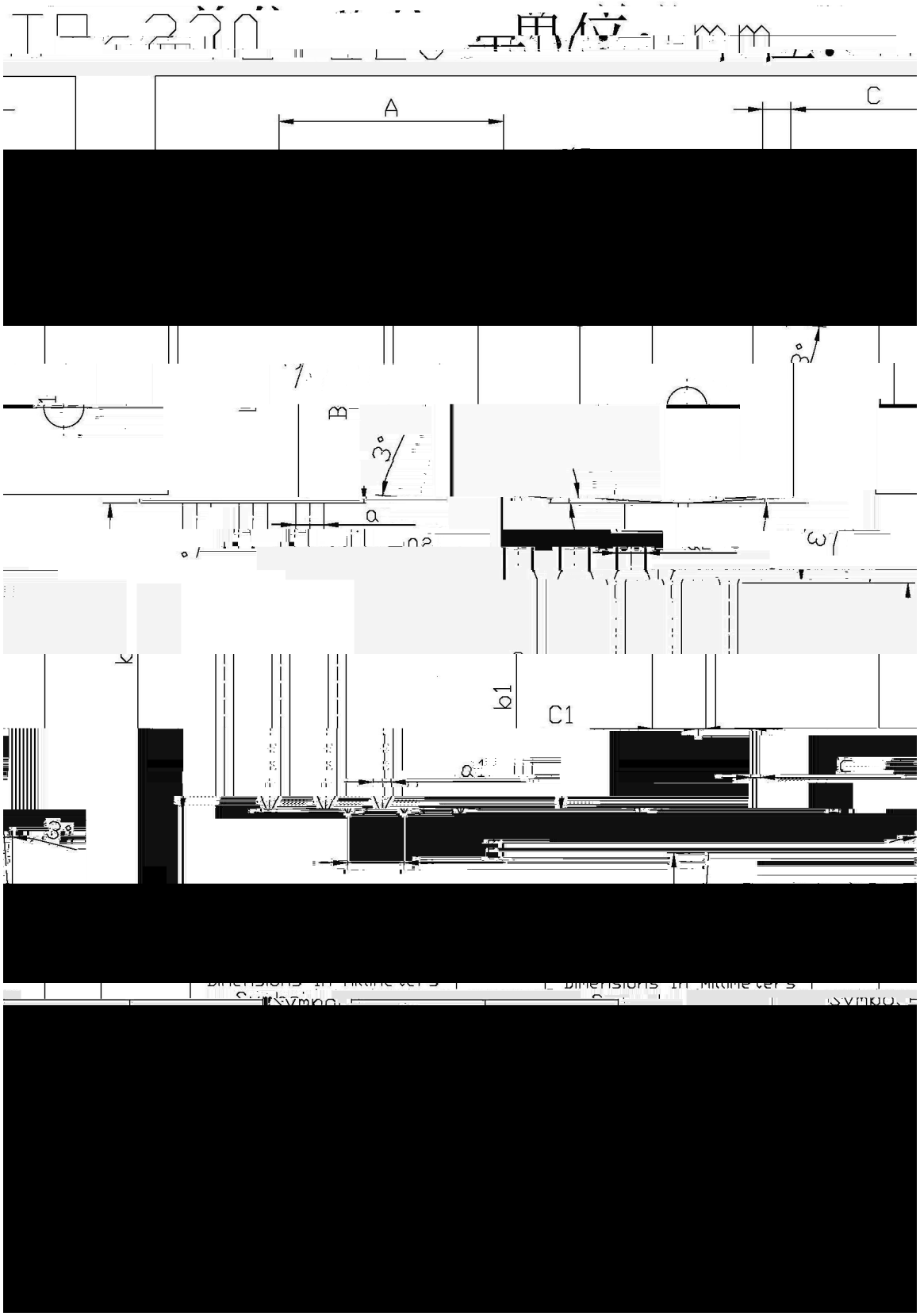
/ Electrical Characteristic Curve



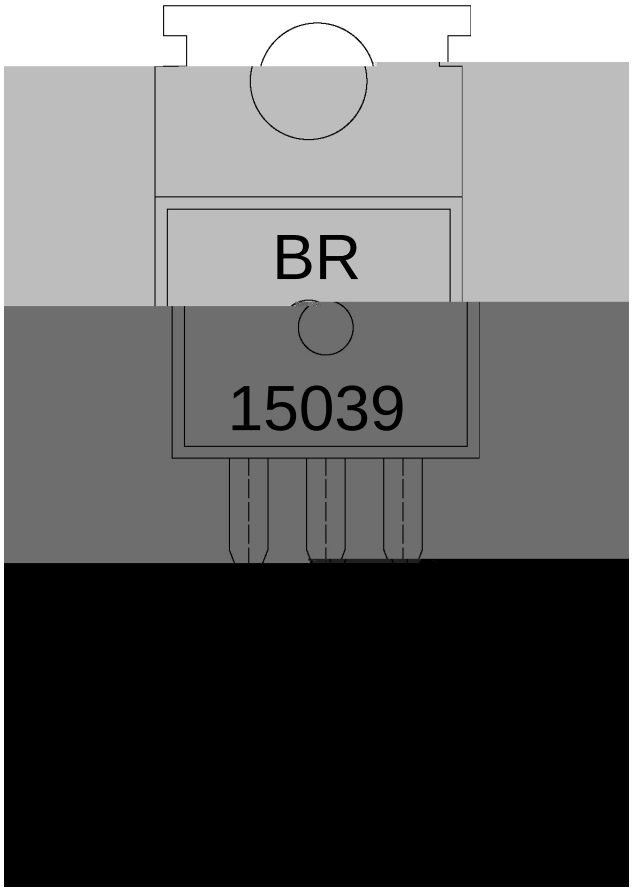




/ Package Dimensions



/ Marking Instructions



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Note:	
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15039:	Product Type.
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