/ Descriptions

Silicon NPN transistor in a TO-220 Plastic Package.

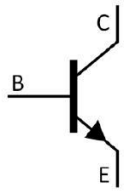
/ Features

High voltage switching transistor.

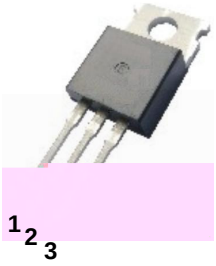
/ Applications

Switching regulator and general purpose.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

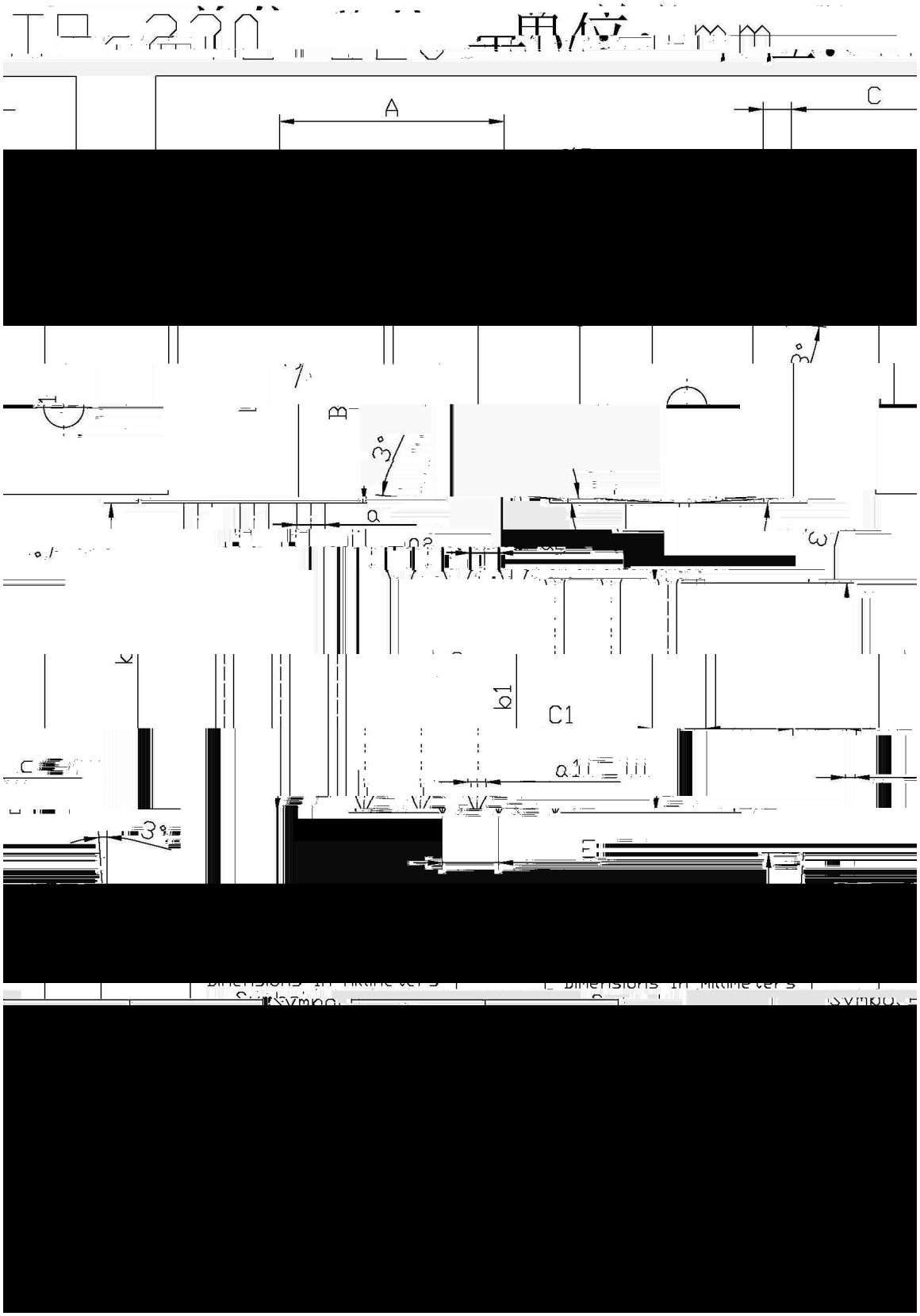
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	900	V
Collector to Emitter Voltage	V_{CEO}	550	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current - Continuous	I_C	3.0	A
Base Current - Continuous	I_B	1.5	A
Collector Power Dissipation	P_C	30	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

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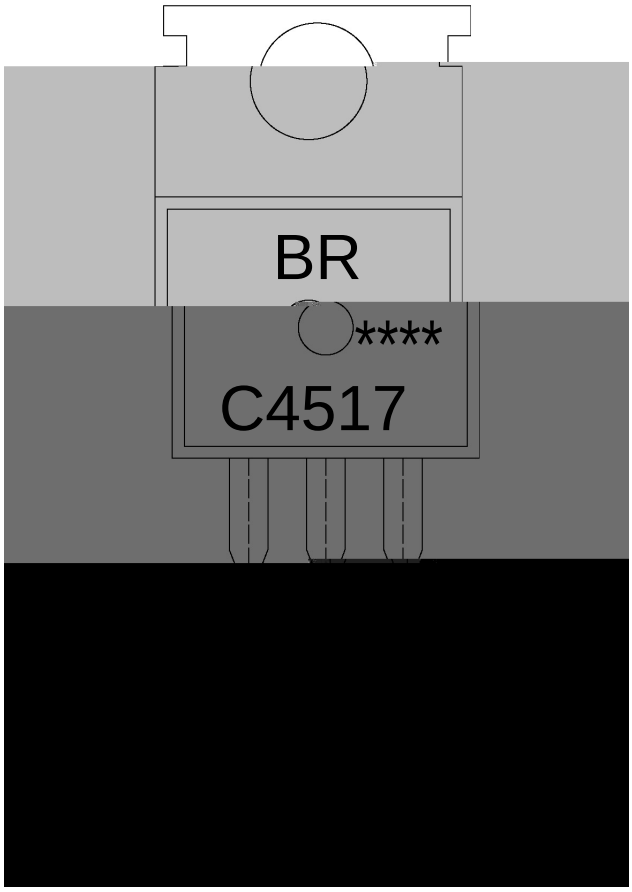
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=800V I_E=0			100	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=7.0V I_C=0			100	μA
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=10mA I_B=0	550			V
DC Current Gain	h_{FE}	V_{CE}=4.0V I_C=1.0A	10		30	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=1.0A I_B=0.2A			0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=1.0A I_B=0.2A			1.2	V
Transition Frequency	f_T	V_{CE}=12V I_E=-0.25A		6		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V f=1.0MHz		35		pF

/ Electrical Characteristic Curve

/ Package Dimensions



/ Marking Instructions



Note:

BR:	Company Code
C4517:	Product Type.
****:	Lot No. Code, code change with Lot No.