/ Descriptions

Silicon PNP transistor in a TO-220 Plastic Package.

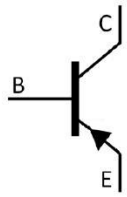
/ Features

High I_C, high P_C, complement to BD543.

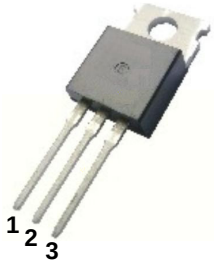
/ Applications

Medium power amplifier applications.

/ 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}	BD544	-40	V
		BD544A	-60	V
		BD544B	-80	V
		BD544C	-100	V
Collector to Emitter Voltage	V_{CEO}	BD544	-40	V
		BD544A	-60	V
		BD544B	-80	V
		BD544C	-100	V
Emitter to Base Voltage	V_{EBO}		-5.0	V
Collector Current - Continuous	I_C		-8.0	A
Peak Collector Current	I_{CM}		-10	A
Collector Power Dissipation	P_C		2.0	W
	P_C (Tc=25)		70	W
Junction Temperature	T_j		-55 150	
Storage Temperature Range	T_{sag}		-55 150	
Lead temperature 3.2 mm from case for 10 seconds	T_L		260	

/ Electrical Characteristics(Ta=25)

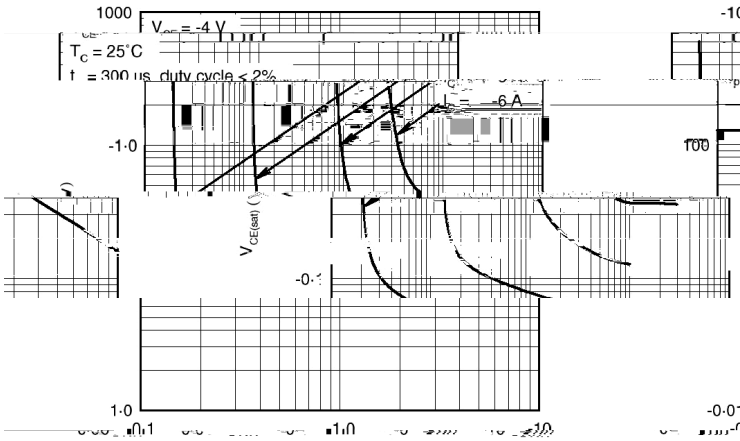
Parameter	Symbol		Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	BD544	I_C=-30mA I_B=0	-40			V
		BD544A		-60			
		BD544B		-80			
		BD544C		-100			
Collector Cut-Off Current	I_{CEO}	BD544 BD544A	V_{CE}=-30V I_B=0			-0.7	mA
		BD544B BD544C	V_{CE}=-60V I_B=0				
Collector Cut-Off Current	I_{CES}	BD544	V_{CE}=-40V V_{EB}=0			-0.4	mA
		BD544A	V_{CE}=-60V V_{EB}=0				
		BD544B	V_{CE}=-80V V_{EB}=0				
		BD544C	V_{CE}=-100V V_{EB}=0				

/ Electrical Characteristics(Ta=25)

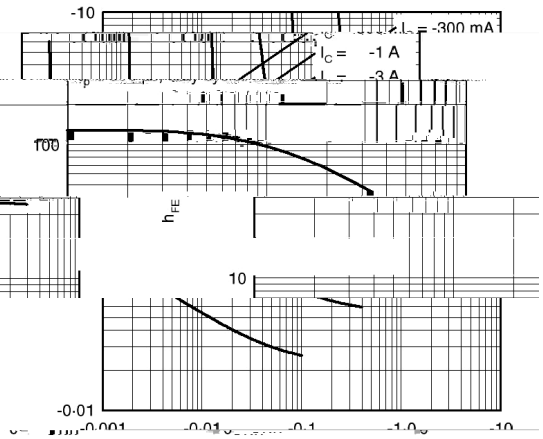
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-1.0	mA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-4.0V I_C=-1.0A	60			
	$h_{FE(2)}$	V_{CE}=-4.0V I_C=-3.0A	40		200	
	$h_{FE(3)}$	V_{CE}=-4.0V I_C=-5.0A	15			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_B=-0.3A I_C=-3.0A			-0.6	V
		I_B=-1.0A I_C=-5.0A			-0.6	V
		I_B=-1.6A I_C=-8.0A			-1.0	V
Base to Emitter Voltage	V_{BE}	V_{CE}=-4.0V I_C=-5.0A			-1.4	V

/ Electrical Characteristic Curve

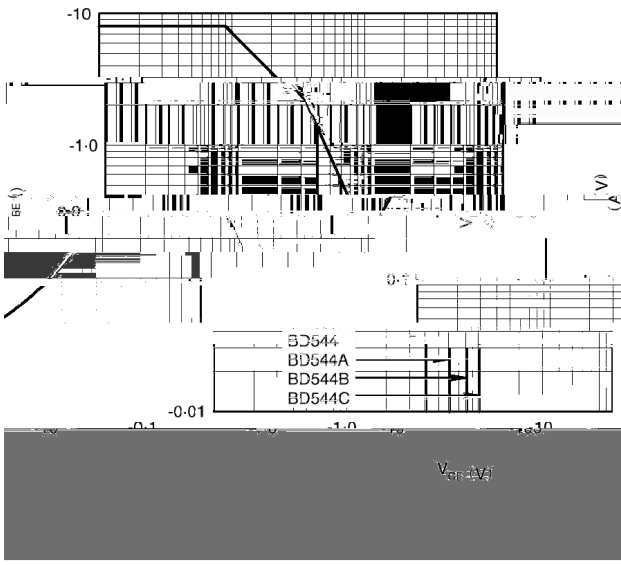
h_{FE} — I_C



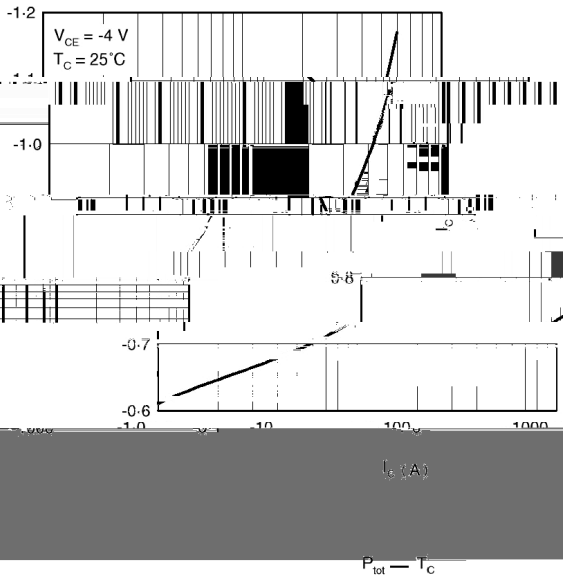
$V_{CE(sat)}$ — I_B



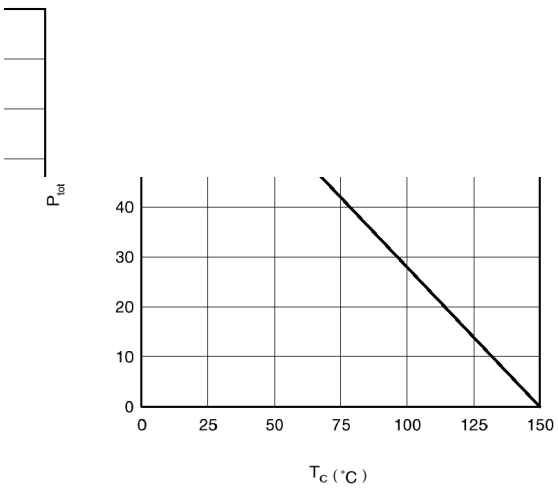
I_C — V_{CE}

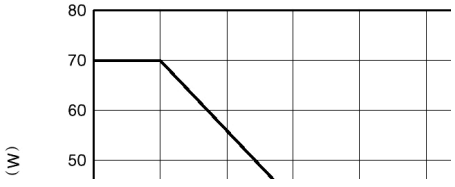


V_{BE} — I_C

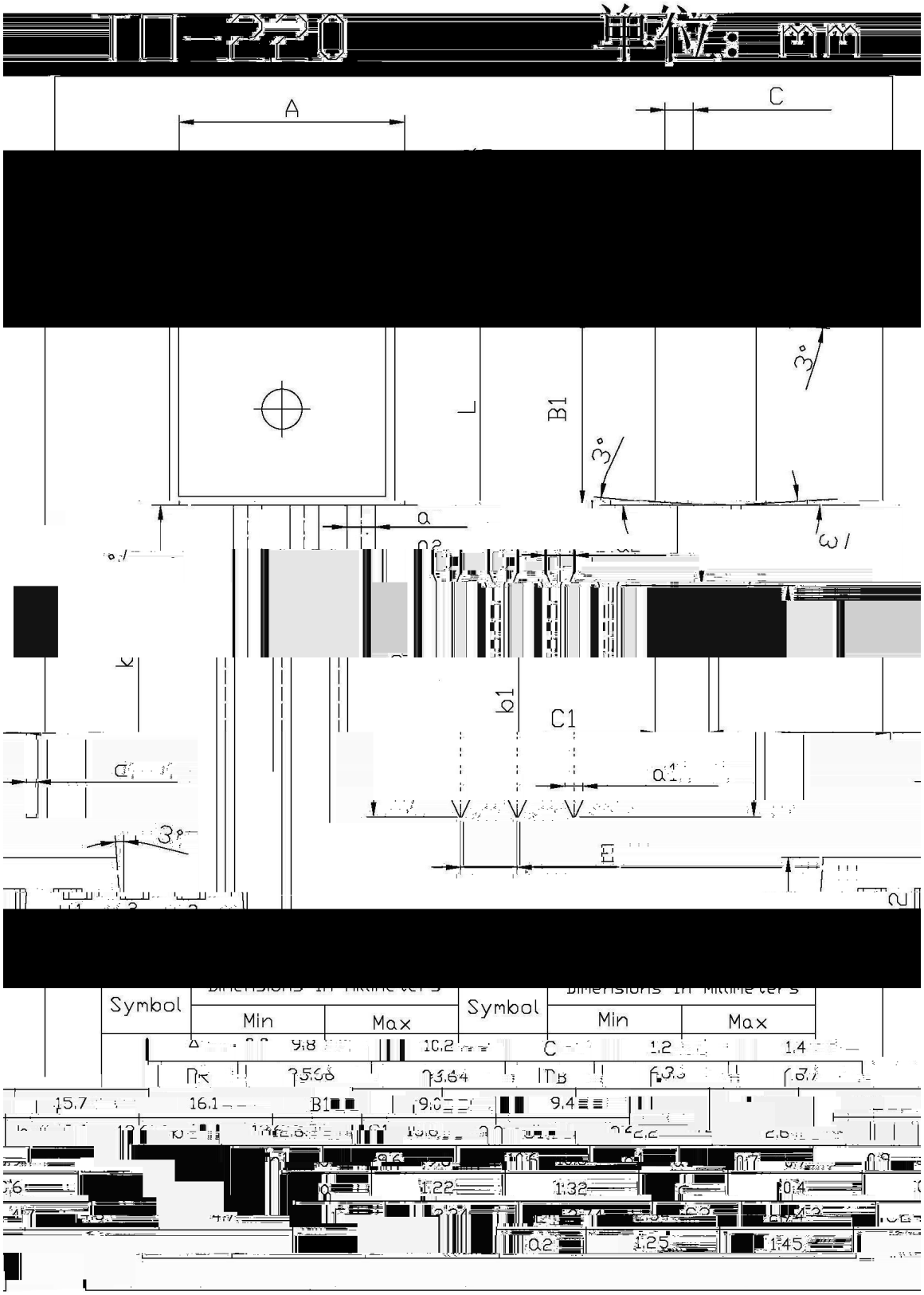


P_{tot} — T_C

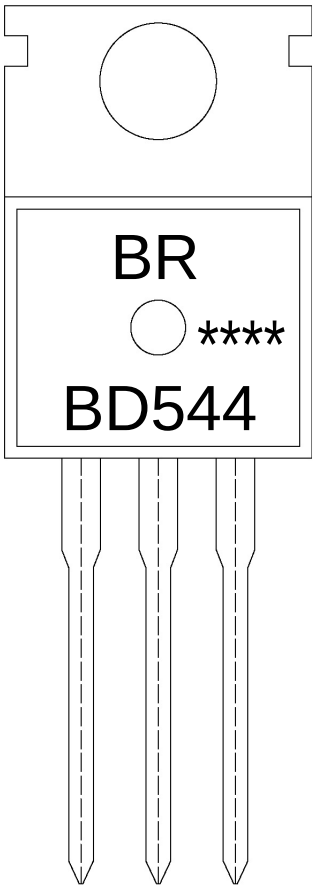




/ Package Dimensions



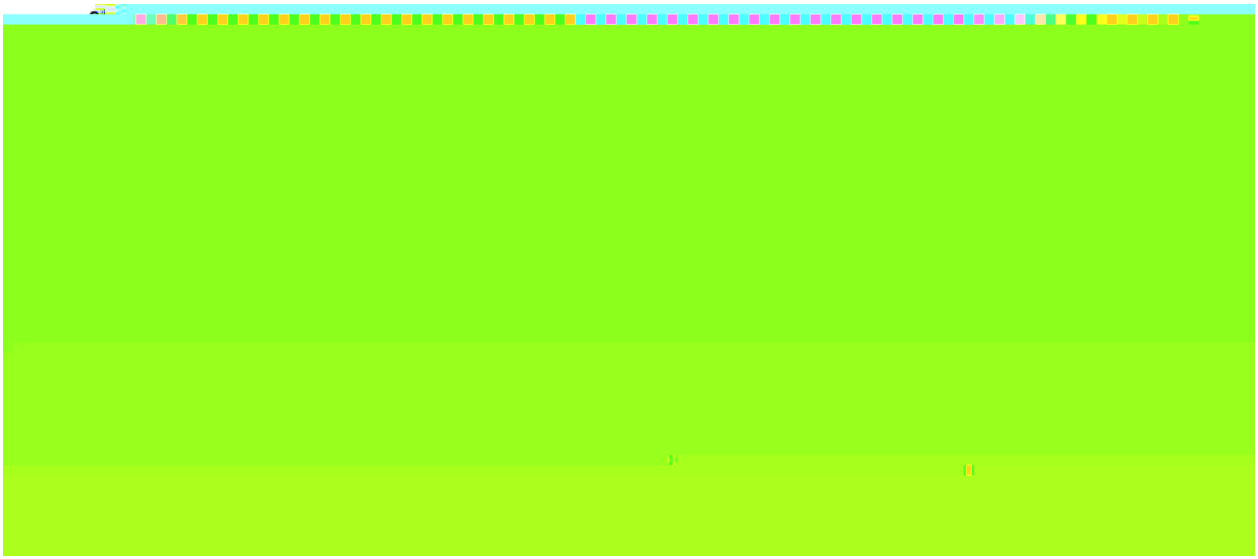
/ Marking Instructions



Note:

BR:	Company Code
BD544:	Product Type.
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



				Note:
1	25 150	60 90sec;		1.Preheating:25~150 , Time:60~90sec.
2	255 5	5 0.5sec;		2.Peak Temp.:255 5 , Duration:5 0.5sec.
3				