2SD1513

Rev.E Mar.-2016

/ Descriptions

WR0<5 QSQ Silicon NPN transistor in a TO-92 Plastic Package.

/ Features

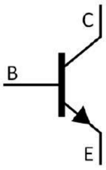
H,/ / / 5VB439;

low saturation voltage, high DC current gain, high total power dissipation P_C Complementary pair with 2SB1068.

/ Applications

For use in driver and output stages of audio frequency amplifiers.

/ Equivalent Circuit



/ Pinning

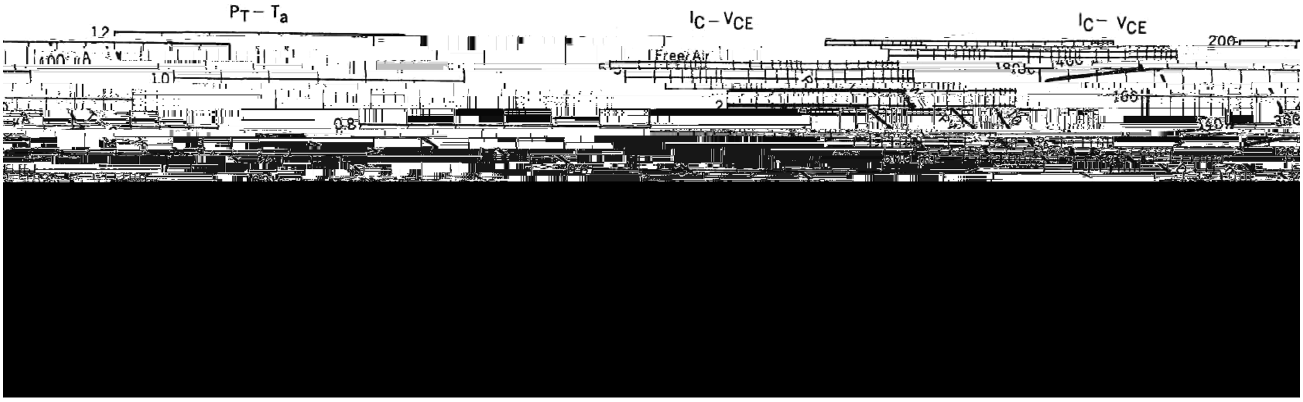
PIN1 Base PIN 2 Collector PIN 3 Emitter

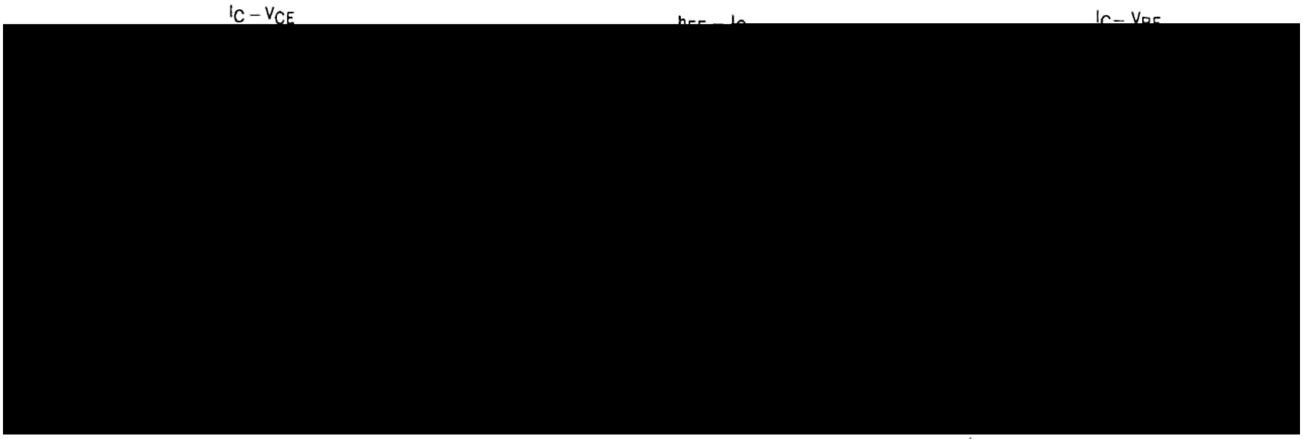
/ hFE Classifications & Marking

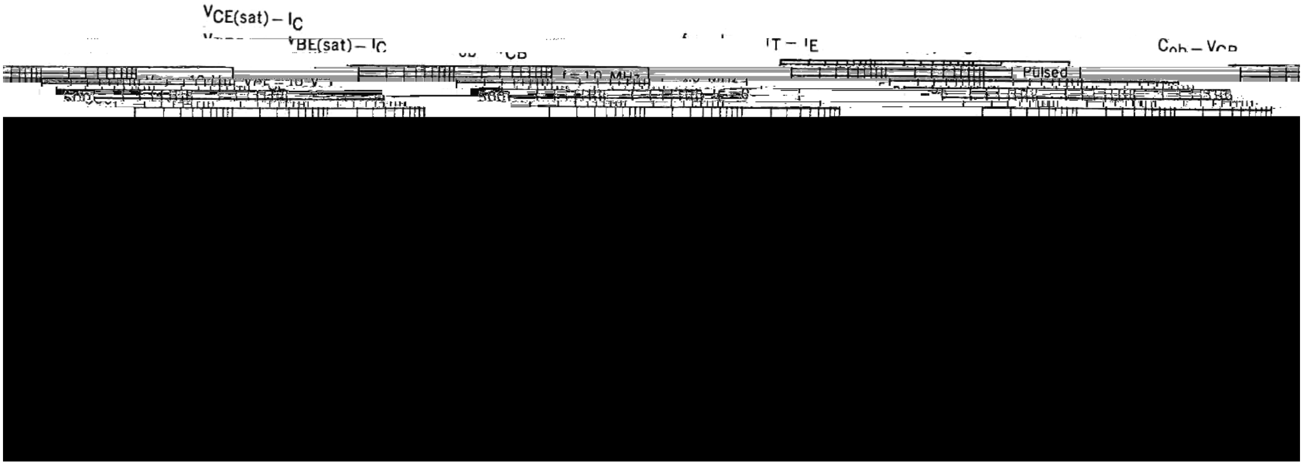
h_{FE} Classifications Symbol	L	K	U
h_{FE} Range	135~270	200~400	300~650

Parameter	N Symbol	Rating	Ӈ Unit
Collector to Base Voltage	V_{CBO}	20	V
Collector to Emitter Voltage	V_{CEO}	16	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	2.0	A
Collector Current – Continuous(Pulse)	I_{CP}	3.0	A
Collector Power Dissipation	$P_C(T_a=25\quad)$	750	mW

/ Electrical Characteristic Curve

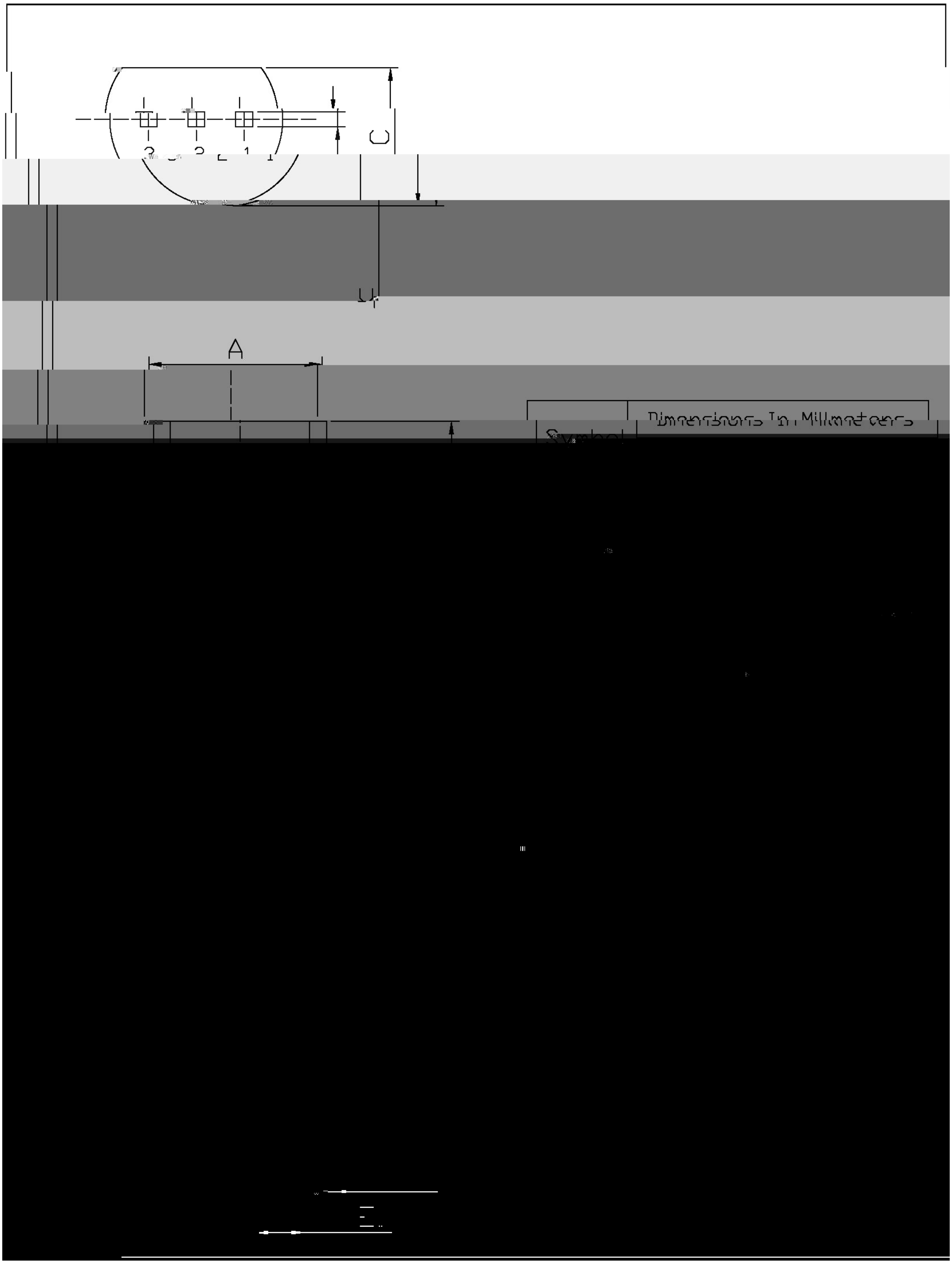




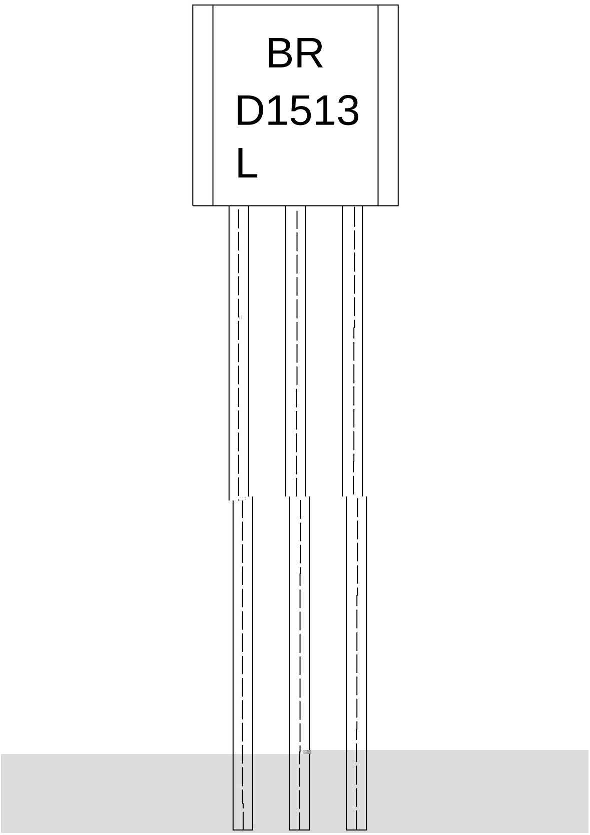


/ Package Dimensions

TO-92 Unit: mm



/ Marking Instructions



BU= И

G4846 N

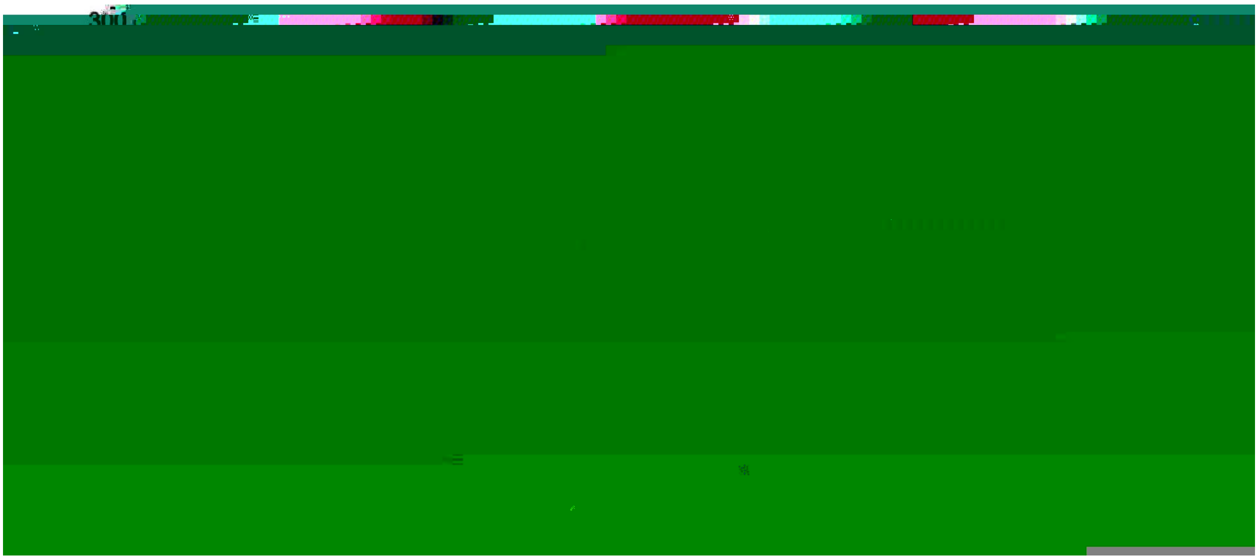
L= h I H

**** N N

Note:

BR:	Company Code.
D1513:	Product Type.
L:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

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



1 25 150 60 90sec;
2 255±5 5±0.5sec;
3 2 10 /sec.

Note:
1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:255±5 , Duration:5±0.5sec.
3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	只 纸带	纸带 盒	纸带层 盒	盒 箱	只 箱	盒	箱
							小箱 , 大箱

/ Notices