KTC3206

Rev.E Mar.-2016

DATA SHEET

/ Descriptions

WR0<50 P ṂṂ Ł QSQ ÆṀ ɥ s ǁ ˥ Silicon NPN transistor in a TO-92LM Plastic Package.

/ Features

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High breakdown voltage, low output capacitance, high transition frequency.

/ Applications

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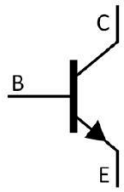
B/W TV video output, high voltage switching application.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

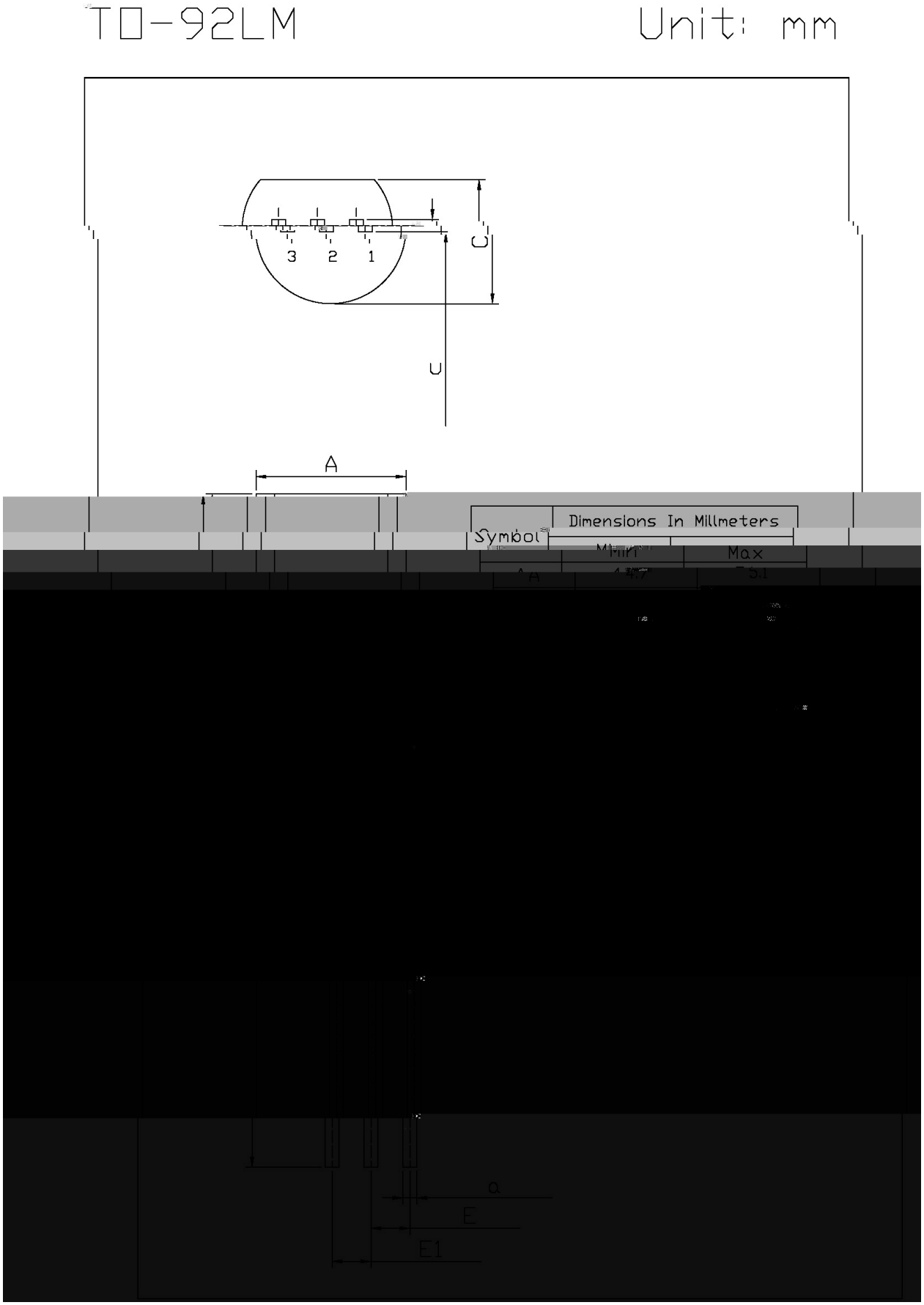
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	70~140	120~240

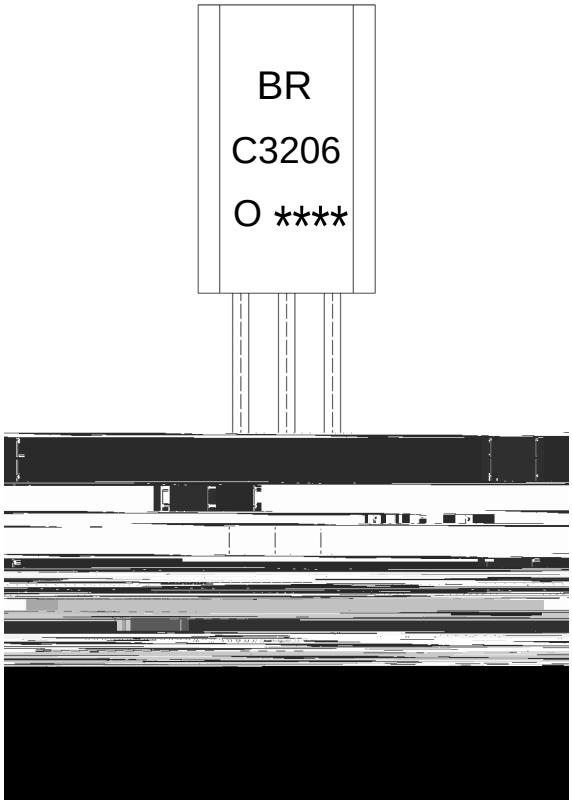
v ̈Ω̣ Parameter	ɬ N Symbol	̈Ω̣Ö Rating	D Ɉ Unit
Collector to Base Voltage	V_{CBO}	200	V
Collector to Emitter Voltage	V_{CEO}	150	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	50	mA
Emitter Current - Continuous	I_E	-50	mA
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

v ̈Ω̣ Parameter	ɬ N Symbol	⊥⊥ ;ˇ ̣ Ţ Test Conditions	ω̣ ṇ Ö Min	Ɛ ʒ Ö Typ	ω̣ ʑ Ö Max	D Ɉ Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=200V I_E=0			0.1	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=5.0V I_C=0			0.1	A
DC Current Gain	h_{FE}	V_{CE}=5.0V I_C=10mA	70		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=10mA I_B=1.0mA			0.5	V
Base to Emitter Voltage	$V_{BE(sat)}$	I_C=10mA I_B=1.0mA			1.0	V
Transition Frequency	f_T	V_{CE}=30V I_C=10mA		120		MHz
Collector output capacitance	C_{ob}	V				

/ Package Dimensions



/ Marking Instructions



ب ˝ χ

EU=	ѭ ʒ ᴵᴵ Ɱ
F6539=	ѭ ʒ ᴺ Ɱ
R=	ѭ k_{IH} ʿ ᶠ Ɱ
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Note:

BR:	Company Code.
C3206:	Product Type.
O:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

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



ب ˝ χ

1 ٲ ♬ □ ŷ 25 Ḱ 150 ɬ ı `H ڑ 60 Ḱ 90sec;

2 Š Ö □ ŷ 255 ° 5 ɬ ı `H ڑ ˙Y ⺈ ⺮ 5 ° 0.5sec;

3 ì ˙ ⺈ ˛ ɔ ھ ŷ ⺮ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ŷ χ 270 ° 5 ɬ `H ڑ χ 10 ° 1 sec. Temp.:270 ° 5 ɬ Time:10 ° 1 sec

/ Packaging SPEC.

ˇΩ ţ γ Ł / BULK

Package Type	Units	Dimension	(unit mm3) 10