/ Descriptions

WR0<5 ĮMĮ Ł QSQ ÆḾ ч s ‖ ㄱ Silicon NPN transistor in a TO-92 Plastic Package.

/ Features

ă я ㄡ/ ت ᄃ я ∪ Ң/ق ɔ ‖ ژ ɔ ķ Ң/ лъ P SVD<5 J Й ´ ņ ғ β

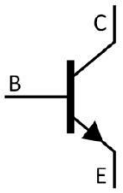
High voltage low saturation, low collector output capacitance, complementary pair with MPSA92G.HF Product.

/ Applications

ᵮ ㄡ ɔ я í ɔ ت

High voltage control circuit.

/ Equivalent Circuit



/ Pinning



PIN1 χ Collector PIN 2 χ Base PIN 3 χ Emitter

/ hFE Classifications & Marking

ð м ㄱ ب ˝ See Marking Instructions.

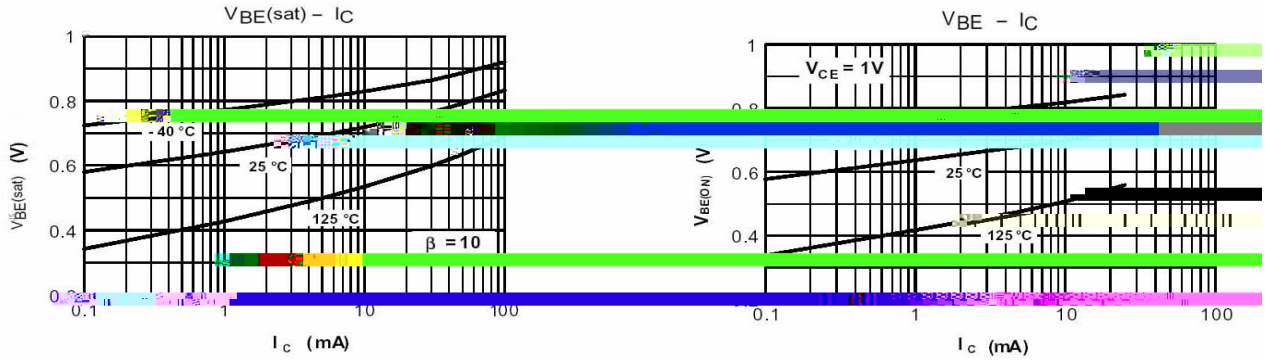
/ Absolute Maximum Ratings(Ta=25)

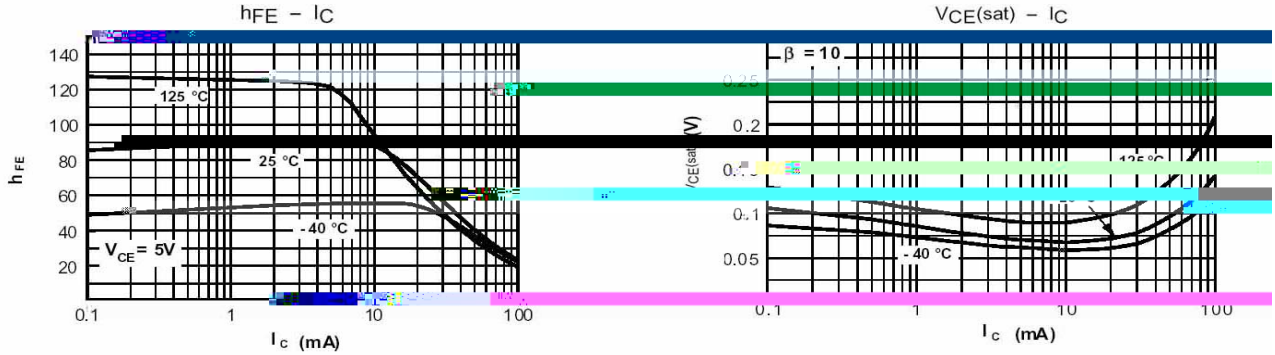
v Ѽ Parameter	ч N Symbol	Ѽ Ё Rating	D Ц Unit
Collector to Base Voltage	V_{CBO}	300	V
Collector to Emitter Voltage	V_{CEO}	300	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	500	mA
Collector Power Dissipation	P_C	625	mW
Collector Power Dissipation	P_C(T_c=25 ł)	1.5	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

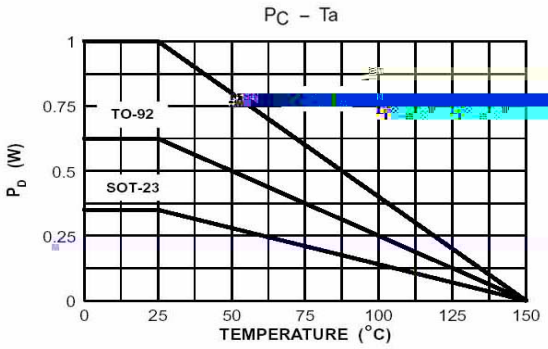
/ Electrical Characteristics(Ta=25)

v Ѽ Parameter	ч N Symbol	Ш :ĺ Ţ Test Conditions	ѽ ņ Ё Min	Ɛ ȝ Ё Typ	ѽ ƶ Ё Max	D Ц Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=100 A I_E=0	300			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=1.0mA I_B=0	300			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=100 A I_C=0	6.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=200V I_E=0			0.1	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=6.0V I_C=0			0.1	A
DC Current Gain	$h_{FE(1)}$	V_{CE}=10V I_C=10mA	40			
	$h_{FE(2)}$	V_{CE}=10V I_C=30mA	40			
	$h_{FE(3)}$	V_{CE}=10V I_C=1.0mA	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=20mA I_B=2.0mA			0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=20mA I_B=2.0mA			0.9	V
Transition Frequency	f_T	V_{CE}=20V I_C=10mA f=100MHz	50			MHz
Collector Output Capacitance	C_{ob}	V_{CB}=20V I_E=0 f=1.0MHz			3.0	pF

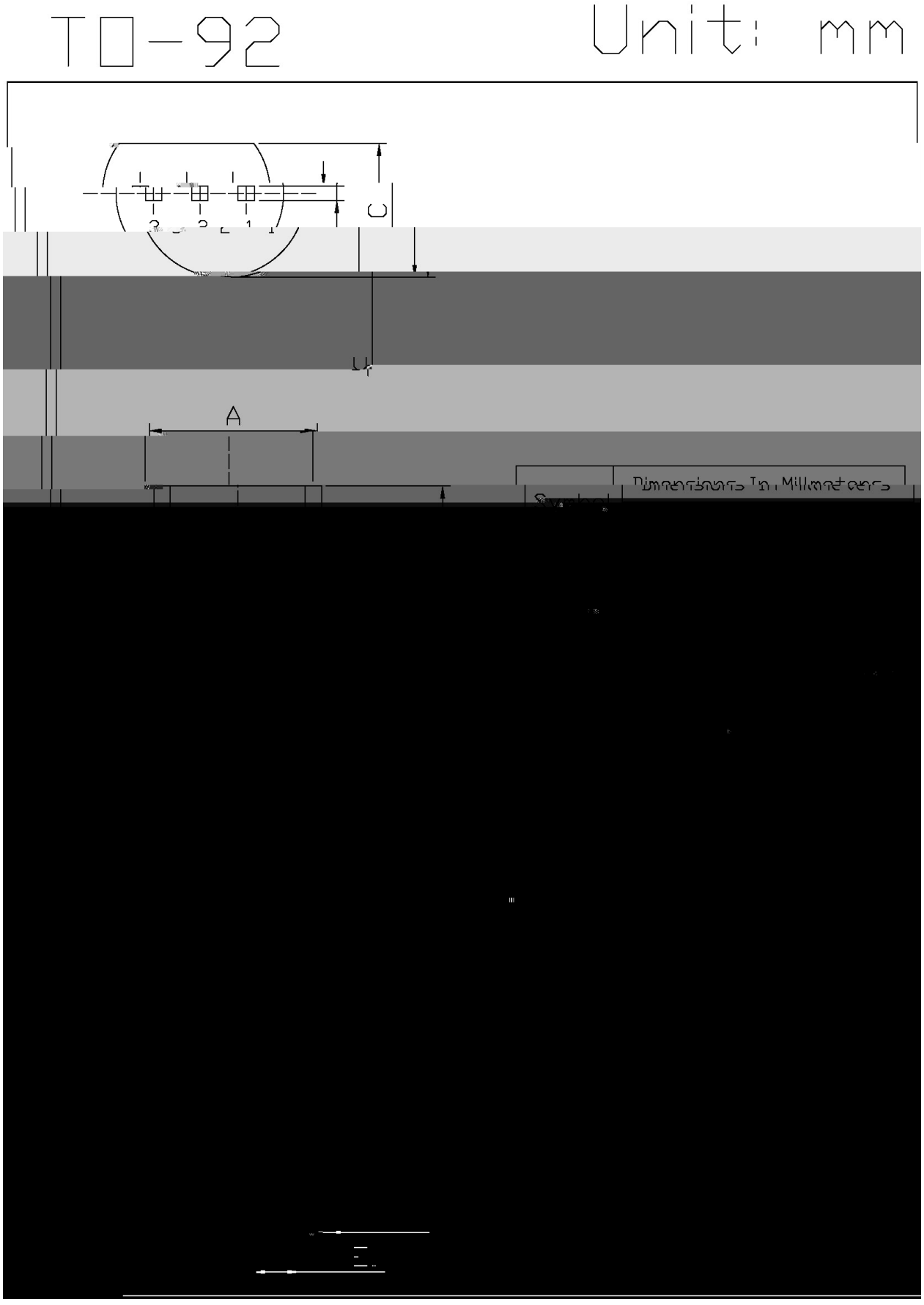
/ Electrical Characteristic Curve



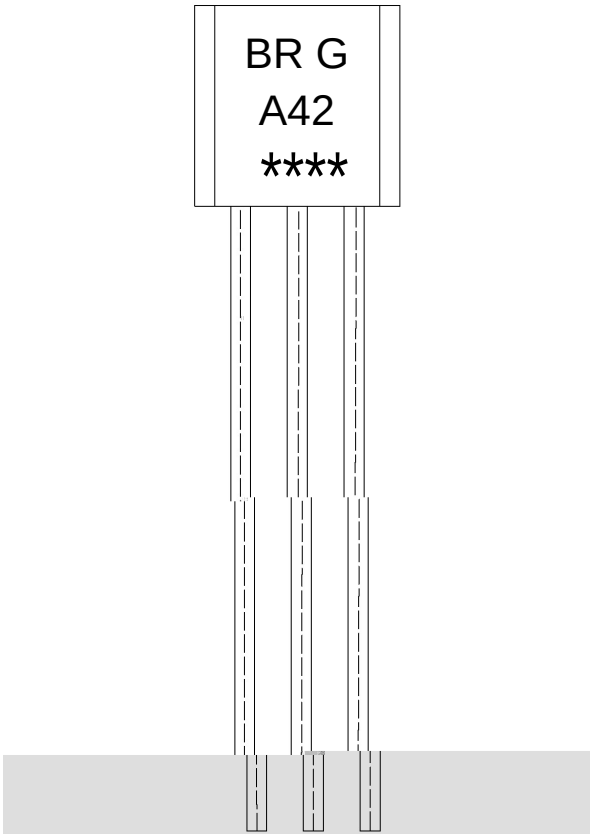




/ Package Dimensions



/ Marking Instructions

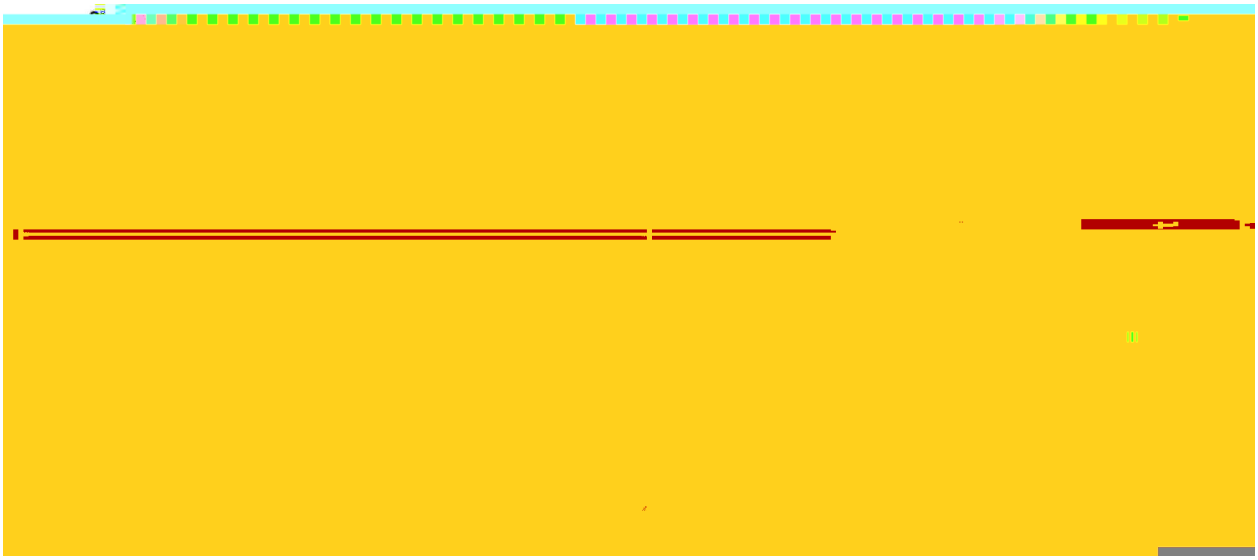


ب ˝ χ	
EU=	ﻫ ﺀ ﻧ ﮣ
D75 χ	ﻫ ﺯ ﻥ ﮣ
J=	ﻫ ﻍ ﻓ ﺑ ﮣ
---- χ	ﻫ ﺍ ﻓ ﻕ ﻥ ﮣ ﺍ ﻩ ﺍ ﻓ ﻕ ﻥ ﻳ ﻗ

Note:

BR:	Company Code.
A42:	Product Type.
G:	Halogen Free Product
****:	Lot No. Code,code change with Lot No.

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



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ł ı `H ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 255 ° 5 ł ı `H ڑ `Y ﾊ ㎛ 5 ° 0.5sec;

3 ì ˙ ｲ ˛ ɔ ෯ ỷ ㎛ 2 Ḱ 10 ł /sec.

Note:

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

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

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ł	`H ڑ χ 10 ° 1 sec.	Temp:270±5	Time:10±1 sec

/ Packaging SPEC.

¨Ω ţ ｲ Ł / BULK

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