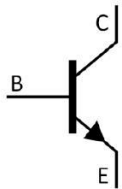


WR0<5 QSQ Silicon NPN transistor in a TO-92 Plastic Package.

High P_C , low $V_{CE(sat)}$, high current switching.

Medium power switching and muting, linear regulators, LCD back-lighting, supply line switching circuits.



PIN1 Base PIN 2 Collector PIN 3 Emitter

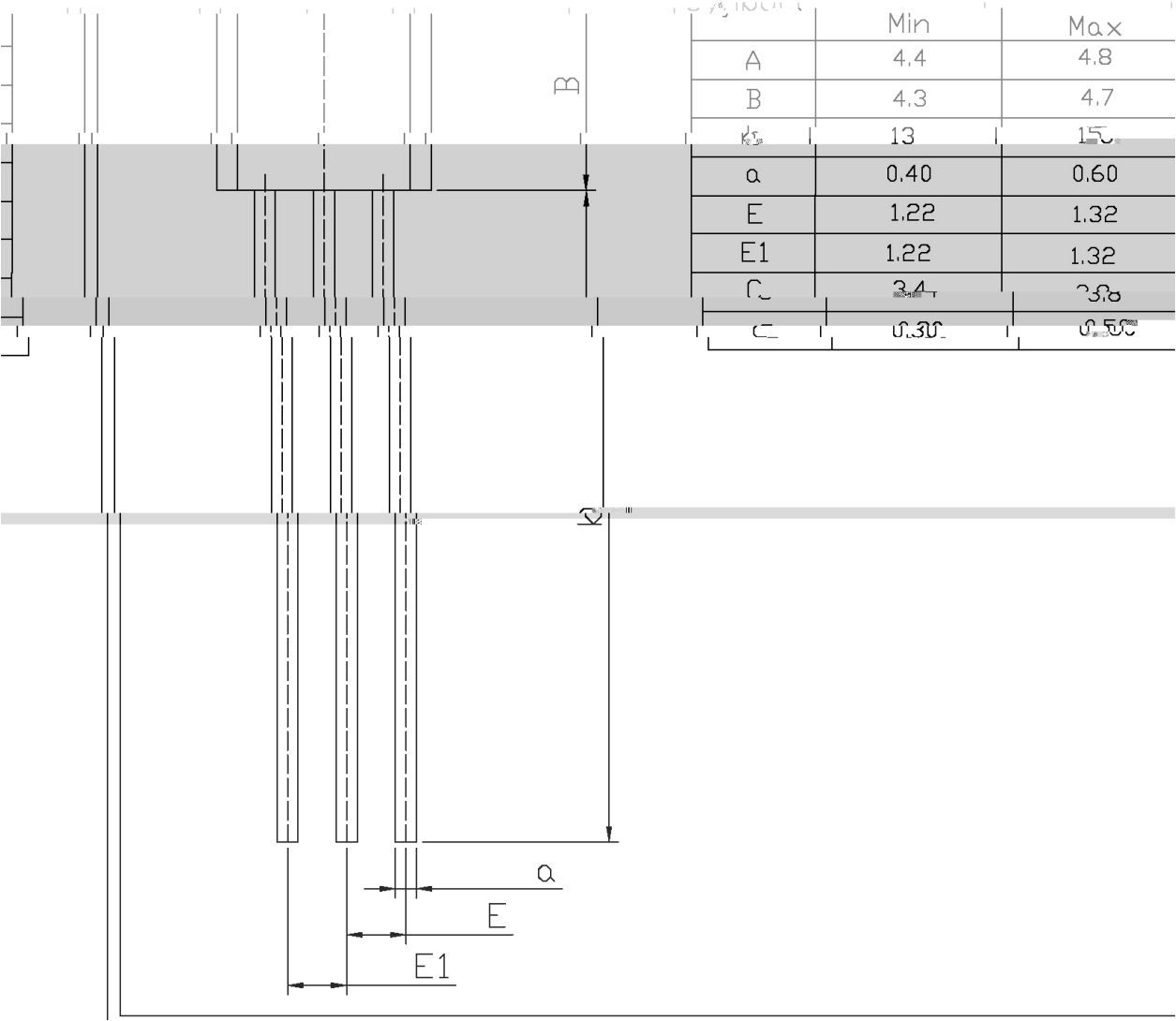
See Marking Instructions.

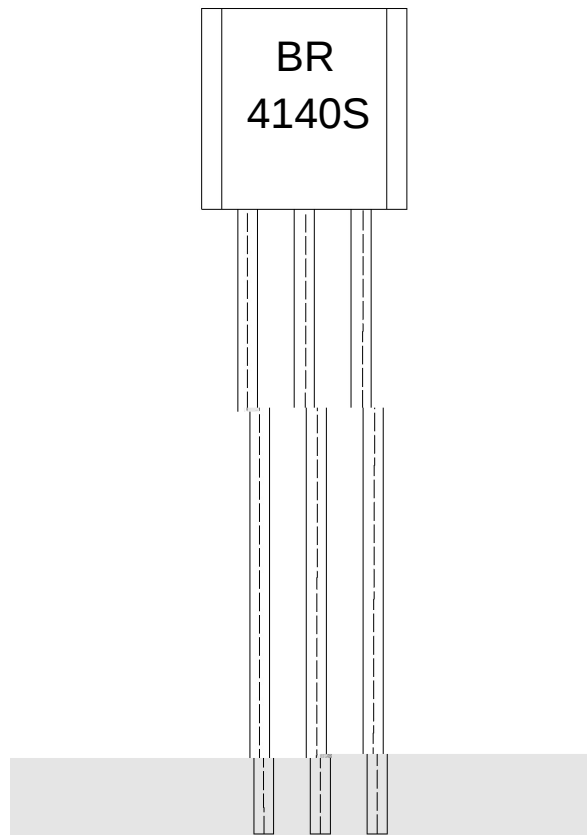
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	40	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	1.0	A
Peak Collector Current	I_{CM}	2.0	A
Peak Base Current	I_{BM}	1.0	A
Collector Power Dissipation	P_C	830	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=40V$ $I_E=0$			0.1	μA
Collector Cut-Off Current	I_{CEO}	$V_{CE}=30V$ $I_B=0$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0V$ $I_C=500mA$	300		900	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=1.0mA$	300			
	$h_{FE(3)}$	$V_{CE}=5.0V$ $I_C=1.0A$	200			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=100mA$ $I_B=1.0mA$			200	mV
	$V_{CE(sat)(2)}$	$I_C=500mA$ $I_B=50mA$			250	mV
	$V_{CE(sat)(3)}$	$I_C=1.0A$ $I_B=100mA$			500	mV
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=1.0A$ $I_B=100mA$			1.2	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=5.0V$ $I_C=1.0A$			1.1	V
Transition Frequency	f_T	$V_{CE}=10V$ $f=100MHz$ $I_C=50mA$	150			MHz
Collector Capacitance	C_C	$V_{CB}=10V$ $f=1.0MHz$ $I_E=0$			10	pF

TD-92

Unit: mm





EU:-

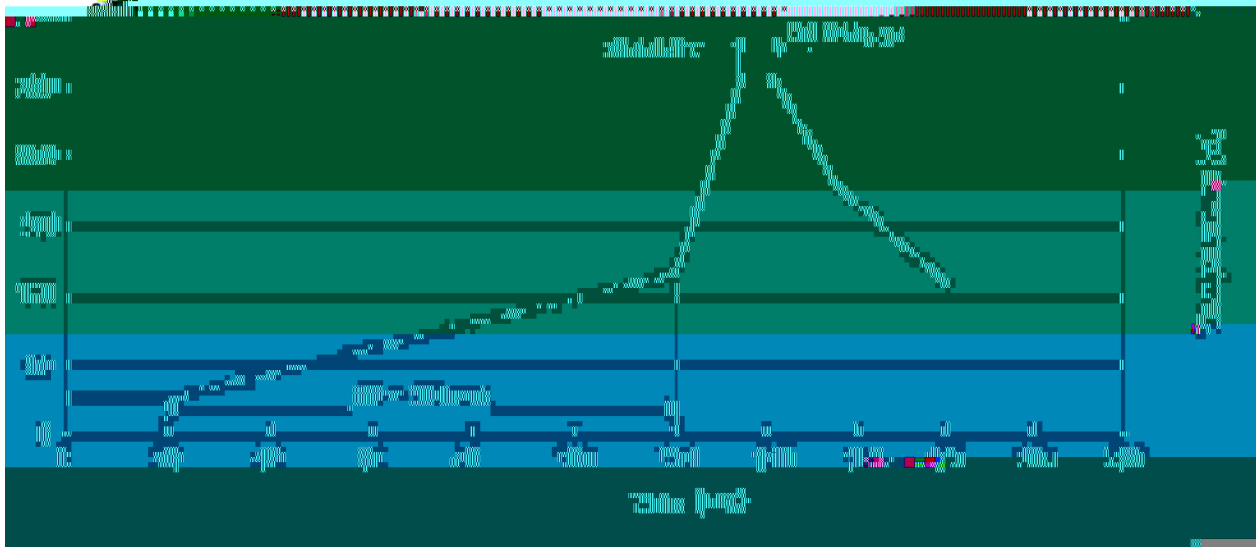
7473V

Note:

BR: Company Code.

4140S: Product Type.

****: Lot No. Code,code change with Lot No.



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 | | | 2 | 10%/sec. | 3. Cooling Speed: 2~10%/sec. |

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

/ 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