

■ ABSOLUTE MAXIMUM RATING (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	20	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	Ic	700	mA
Collector Dissipation(T _A =25°C)	Pc	1	W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65 ~ +150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100μA, I _E =0	30			V
Collector-Emitter Breakdown Voltage	BVCEO	I _C =1mA, I _B =0	20			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =100μA, Ic=0	5			V
Collector Cut-Off Current	Ісво	V _{CB} =30V, I _E =0			1	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5V, I _C =0			100	nA
	h _{FE1}	V _{CE} =1V, I _C =1mA	100			
DC Current Gain	h _{FE2}	V _{CE} =1V, I _C =150 mA	120		400	
	h _{FE3}	V _{CE} =1V, I _C =500mA	40		1 µ/s 100 n/s 100 n/s 1.2 V 1.0 V	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =500mA, I _B =50mA			0.5	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =500mA, I _B =50mA			1.2	V
Base-Emitter Saturation Voltage	V _{BE}	V _{CE} =1V, I _C =10mA			1.0	V
Current Gain Bandwidth Product	f _T	V _{CE} =10V, I _C =50mA	100			MHz
Output Capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz		9.0		pF

■ CLASSIFICATION OF h_{FE2}

RANK	С	D	E
RANGE	120-200	160-300	280-400



UNISONIC TECHNOLOGIES CO., LTD

S8050

NPN SILICON TRANSISTOR

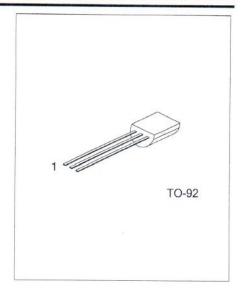
LOW VOLTAGE HIGH CURRENT SMALL SIGNAL NPN TRANSISTOR

DESCRIPTION

The UTC **S8050** is a low voltage high current small signal NPN transistor, designed for Class B push-pull audio amplifier and general purpose applications.

■ FEATURES

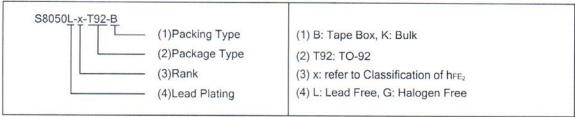
- * Collector current up to 700mA
- * Collector-Emitter voltage up to 20 V
- * Complementary to S8550



ORDERING INFORMATION

Order N	Number	Doolsoon	Pin	Assignr	ment	
Lead Free Plating	Halogen Free	Package	1	2	3	Packing
S8050L-x-T92-B	S8050G-x-T92-B	TO-92	E	В	С	Tape Box
S8050L-x-T92-K	S8050G-x-T92-K	TO-92	E	В	С	Bulk

Note: Pin Assignment: E: Emitter B: Base C: Collector



MARKING INFORMATION

PACKAGE	MARKING
TO-92	UTC S8050 L: Lead Free G: Halogen Free Data Code

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SONGLE RELAY



RELAY ISO9002

SRS/SRSZ



1. MAIN FEATURES

- ☐ Subminiature Type.
- ☐ Silver or Silver Alloy Contacts withGold Plated.
- □Low Dissipation.
- ☐ Sealed Type Available.
- ☐ Design conforms to foreign safety standard UL, CUL, TUV

2. APPLICATIONS

óMicroprocessor Control, Store Program Exchanger and Household Appliance.

3. ORDERING INFORMATION

SRS/SRSZ	XX VDC	S	L	
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	
		S: Sealed type	H: 0.20W	
SRS/SRSZ	OCDEDODORODA (DO	o. dealed type	L: 0.36W	
5110/51102		F: Flux free type	Commission of the Commission of the	
		7,1	D: 0.45W	

4. RATING

TUV

UL/CUL

FILE NUMBER: E167996

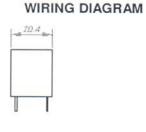
FILE NUMBER: R50056114

1A/120VAC 24VDC 3A/250VAC 30VDC

3A/120VAC 24VDC

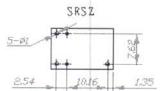
5. DIMENSION(unit:mm)

DRILLING(unit:mm)











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6. COIL DATA CHART (AT20 °C)

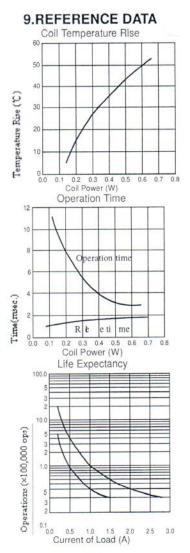
	Coil	Nominal	Nominal	Coil	Power	Pull-In	Drop-Out	Max-Allowable
Coil	Voltage	Voltage	Current	Resistance	Consumption	Voltage	Voltage	Voltage
Sensitivity	Code	(VDC)	(mA)	(Ω) 🗆	(W)	(VDC)	(VDC)	(VDC)
				10%				
	03	03	66.7	45				
SRS(Z)	05	Code (VDC) (mA) (Ω) (W) (VDC) (VDC						
	06	06	33.3	180	abt. 0.2 W 75% Max. 5°		5% Min.	110%
(High	09	09	22.2	405				
Sensitivity)	12	12	16.7	720				
	24	24	8.3	2880				
	03	03	120	25			14	
SRS(Z)	05	05	66.7	75			70.000.000.000.000.000	
	06	06	60	100	abt. 0.36W	75% Max.	5% Min.	110%
(Standard)	09	09	40.9	220				
	12	12	30	400				
	24	24	15	1600				
	03	03	150	20				
SRS(Z)	05	05	89.3	56				
	06	06	75	80	abt. 0.45W	75% Max	t. 5% M	in. 110%
(Normal	09	09	50	180]			
Sensitivity)	12	12	37.5	320				
	24	24	18.75	1280	-			

7. CONTACT RATING

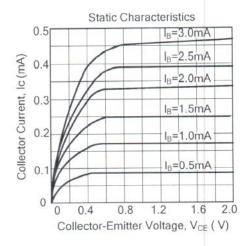
Туре	SRS/SRSZ	SRS/SRSZ
Item	1 Amp type	1 Amp type
Contact Capacity ResistiveLoad(cos⊕=1)	Coil=0.2W 1A 125VAC 1A 30VDC	Coil=0.2W 3A 250VAC 1A 30VDC
InductiveLoad (cosΦ=0.4 L/R=7msec)	0.3A 125VAC 0.3A 30VDC	0.3A 250VAC 0.3A 30VDC
Rated Carrying Current	1 A	1 A
Contact Material	Ag Alloy	Ag Alloy

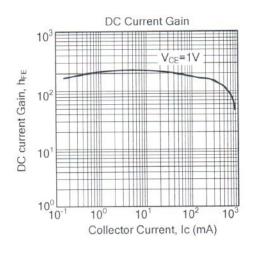
8, PERFORMANCE (at initial value) SRS/SRSZ Item Contact Resistance 100mΩ Max. Operation Time 10msec Max. 5msec Max. Release Time Dielectric Strength 500VAC 50/60HZ (1 minute) Between coil & contact 500VAC 50/60HZ (1 minute) Between contacts Insulation Resistance 100 MΩ Min. (500VDC) Max. ON/OFF Switching Mechanically 300 operation/min 30 operation/min Electrically -25 □ C to +70 □ C Operating Ambient Temperature 45 to 85% RH Operating Humidity Vibration Endurance 10 to 55HZ Single Amplitude 0.35mm 10 to 55HZ Single Amplitude 0.35mm Error Operation 50G Min. Shock Endurance 10G Min. Error Operation 107 operations. Min. (no load) Life Expectancy 105 operations. Min. (at rated coll voltage) Mechanically Electrically

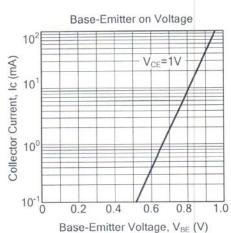
Weight abt. 4grs.

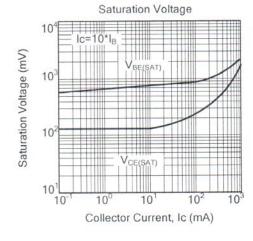


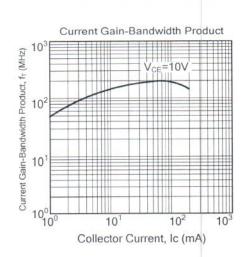
■ TYPICAL CHARACTERISTICS

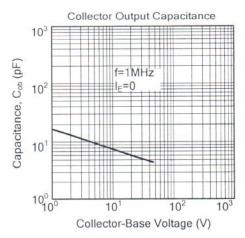












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8=IC, 100 100 6 P GOMA 100R .016 × 3v with = 900000 Picpio 16 Ma SONGLE 3A 30V 90 B R = Resistance $R = \frac{1}{2} \frac{3.3 - 0.7}{3.3 - 0.7}$ I = Current 2/2 DIE >IH 0/> Ohms Watts Amps 010 >12 Volts VXI ۵ VPXR **>**|& I'x R IXR V = Voltagep = powerMESTO WESTON ont co

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