

UTC UNISONIC TECHNOLOGIES CO., LTD

BU931Z

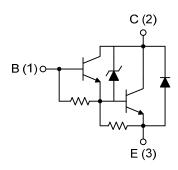
NPN SILICON TRANSISTOR

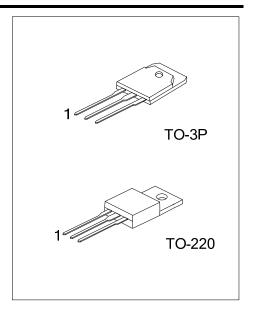
NPN POWER DARLINGTON

FEATURES

- * High Operating Junction Temperature
- * High Voltage Ignition Coil Driver
- * Very Rugged Bipolar Technology

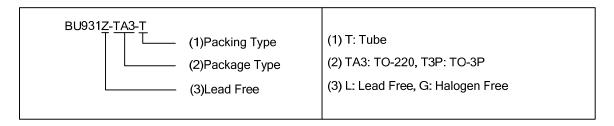
INTERNAL SCHEMATIC DIAGRAM





ORDERING INFORMATION

	Ordering Number		Dookogo	Pin Assignment			Dealine	
Ī	Lead Free	Halogen Free	Package	1	2	3	Packing	
	BU931ZL-TA3-T	BU931ZG-TA3-T	TO-220	В	С	Е	Tube	
	BU931ZL-T3P-T	BU931ZG-T3P-T	TO-3P	В	С	Е	Tube	



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Emitter Voltage		BV_CEO	350	V
Emitter-Base Voltage		BV _{EBO}	5	V
Collector Current (DC)		I _C	10	Α
Collector Peak Current		I _{CM}	15	Α
Base Current		I _B	1	Α
Base Peak Current		I _{BM}	5	Α
Tatal Dissipation (T. 05 °C)	TO-220	0	120	10/
Total Dissipation (T _C = 25 °C)	TO-3P	P_D	125	W
Junction Temperature		TJ	+175	°C
Storage Temperature		T _{STG}	-65 ~ +175	°C

■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I _{CEO}	V _{CE} = 250V			100	μΑ
Emitter Cut-off Current	I _{EBO}	V _{EB} = 5V			20	mA
Clamping voltage	V_{CL}	I _C = 100mA	400			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)1}	$I_C = 7 \text{ A}, I_B = 70 \text{ mA}$			1.6	V
	V _{CE(SAT)2}	I _C = 8 A, I _B = 100 mA			1.8	V
Cook Freitter Caturation Valtage	V _{BE(SAT)1}	$I_C = 7 \text{ A}, I_B = 70 \text{ mA}$			2.2	V
Base-Emitter Saturation Voltage	V _{BE(SAT)2}	$I_C = 8 A$, $I_B = 100 mA$			2.4	V
DC Current Gain	h _{FE}	$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ A}$	300			
Diode Forward Voltage	V_{F}	I _F = 8 A			2.5	V
Industrial and Characa Time / Fall Time	ts	V _{CC} = 12 V, V _{clamp} = 300 V		15		μs
Inductive Load Storage Time / Fall Time	t _F	L = 7 mH, I_C = 7 A, I_B = 70 mA V_{BE} = 0, R_{BE} = 47 Ω		0.5		μs

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