

BU931Z

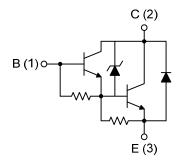
NPN SILICON TRANSISTOR

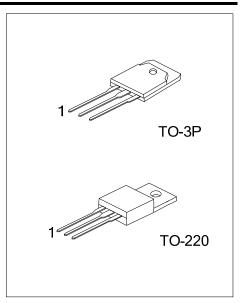
NPN POWER DARLINGTON

FEATURES

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

■ INTERNAL SCHEMATIC DIAGRAM





ORDERING INFORMATION

Ordering Number		Deekers	Pin Assignment			Dealing	
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	

BU931Z-TA3-T (1)Packing Type (2)Package Type (3)Lead Free	(1) T: Tube (2) TA3: TO-220, T3P: TO-3P (3) L: Lead Free, G: Halogen Free
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	A JEAN FLYING 1688. COM
	TOWN
www.unisonic.com.tw	

■ 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)		Ι _C	10	Α	
Collector Peak Current		I _{CM}	15	A	
Base Current		I _B	1	Α	
Base Peak Current		I _{BM}	5	Α	
Total Dissipation (T _C = 25 °C)	TO-220		120	14/	
	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	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 5V			20	mA
Clamping voltage	V _{CL}	I _C = 100mA	400			V
Collector Emitter Seturation Voltage	V _{CE(SAT)1}	I _C = 7 A, I _B = 70 mA			1.6	V
Collector-Emitter Saturation Voltage	V _{CE(SAT)2}	I _C = 8 A, I _B = 100 mA			1.8	V
Read Emitter Seturation Voltage	V _{BE(SAT)1}	I _C = 7 A, I _B = 70 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 V, I _C = 5 A	300			
Diode Forward Voltage	VF	I _F = 8 A			2.5	V
Inductive Load Otennes 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} = 47Ω		0.5		μs



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