UNISONIC TECHNOLOGIES CO., LTD

KTD863

Preliminary

NPN EPITAXIAL SILICON TRANSISTOR

TRIPLE DIFFUSED NPN TRANSISTOR

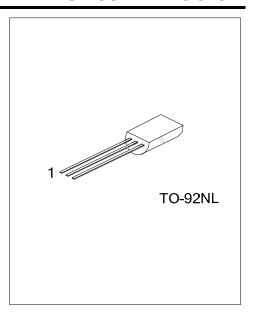
DESCRIPTION

The UTC **KTD863** is a triple diffused NPN transistor. it uses UTC's advanced technology to provide customers with high collector-emitter breakdown voltage and high collector current capability, etc.

The UTC $\mbox{\sc KTD863}$ is suitable for voltage regulator, relay and ramp driver, etc.

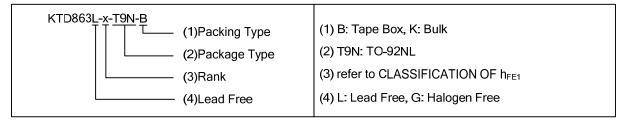
■ FEATURES

- * High collector-emitter voltage
- * High collector current capability



■ ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
KTD863L-x-T9N-B	KTD863G-x-T9N-B	TO-92NL	Е	С	В	Tape Box	
KTD863L-x-T9N-K	KTD863G-x-T9N-K	TO-92NL	Е	С	В	Bulk	



MARKING INFORMATION

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

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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector-Base Voltage		V_{CBO}	60	V	
Collector-Emitter Voltage		V_{CEO}	60	V	
Emitter-Base Voltage		V_{EBO}	5	V	
Continuous Collector Current	DC	I _C	1	Α	
	Pulse	I _{CP}	2	Α	
Collector Power Dissipation		Pc	1	W	
Junction Temperature		TJ	150	°C	
Storage Temperature Range		T _{STG}	-55~+150	°C	

Note: Absolute maximum ratings are stress ratings only and functional device operation is not implied.

Absolute maximum ratings are those values beyond which the device could be permanently damaged.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =1mA, I _B =0	60			V
Collector Cut-Off Current	I _{CBO}	V_{CB} =50V, I_E =0			1	μΑ
Emitter Cut-Off Current	I _{EBO}	V _{EB} =4V, I _C =0			1	μΑ
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA		0.15	0.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =500mA, I _B =50mA		0.85	1.2	V
DC Current Coin	h _{FE1}	I _C =50mA,V _{CE} =2V	60		320	
DC Current Gain	h _{FE2}	I _C =1A,V _{CE} =2V	30			
Transition Frequency	f_T	I _C =50mA, V _{CE} =10V		150		MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz, I _E =0		12		pF

■ CLASSIFICATION OF hFE1

RANK	0	Υ	GR
RANGE	60~120	100~200	160~320

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