

UNISONIC TECHNOLOGIES CO., LTD

Preliminary

NPN EPITAXIAL SILICON TRANSISTOR

COLOR TV AUDIO OUTPUT & COLOR TV VERTICAL OUTPUT

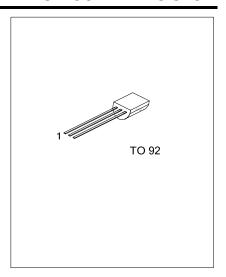
DESCRIPTION

The UTC 2SC2383 is an NPN epitaxial silicon transistor, it uses UTC's advanced technology to provide customers high DC current gain and high breakdown voltage.

The UTC 2SC2383 is usually used in Color TV Vertical Deflection Output and Audio Output.

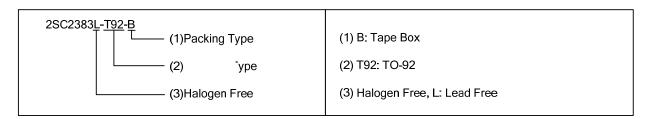
FEATURES

- * High breakdown Voltage
- * High DC Current Gain



ORDERING INFORMATION

Orderi	Ordering Number		Pin Assignment		Pin Assignment		Dooking
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC2383L-T92-B	2SC2383G-T92-B	TO-92	Е	С	В	Tape Box	



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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise noted)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	V_{CEO}	160	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	Ic	1	Α
Base Current	I _B	0.5	Α
Collector Power Dissipation	Pc	900	mW
Junction Temperature	TJ	+150	°C
Storage Temperature	T _{STG}	-55 ~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 noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	V _{CE} =150V, I _E =0			1	μΑ
Emitter Cut-Off Current	I _{EBO}	V _{EB} =6V, I _C =0			1	μΑ
Collector-Emitter Breakdown Voltage	BV_CEO	I _C =10mA, I _B =0	160			V
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =200mA	60		320	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =500mA, I _B =50mA			1.5	V
Base-Emitter On Voltage	$V_{BE(on)}$	V _{CE} =5V, I _C =5mA	0.45		0.75	V
Current Gain Bandwidth Product	f⊤	V _{CE} =5V, I _C =200mA	20	100		MHz
Output Capacitance	C_ob	V_{CB} =10V, I_E =0, f=1MHz			20	pF

h_{FE} CLASSIFICATION

CIASSIFICATION	R	0	Υ
h _{EE}	60~120	100-200	160-320

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