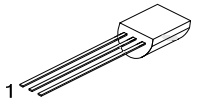
2SC2383

Preliminary **NPN EPITAXIAL SILICON TRANSISTOR**

COLOR TV AUDIO OUTPUT & COLOR TV VERTICAL OUTPUT



TO-92

■ 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

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC2383L-T92-B	2SC2383G-T92-B	TO-92	E	C	B	Tape Box

2SC2383L-T92-B (1)Packing Type (2)Package Type (3)Halogen Free	(1) B: Tape Box (2) T92: TO-92 (3) Halogen Free, L: Lead Free

■ 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	I_C	1	A
Base Current	I_B	0.5	A
Collector Power Dissipation	Pc	900	mW
Junction Temperature	T_J	+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	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=6V, I_C=0			1	μA
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_T	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	O	Y
h_{FE}	60~120	100-200	160-320