

UTC UNISONIC TECHNOLOGIES CO., LTD

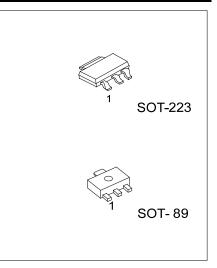
UD2195

Preliminary

NPN EPITAXIAL PLANAR **TRANSISTOR**

DESCRIPTION

The UTC UD2195 is designed for use in general purpose amplifier and low speed switching application.



ORDERING INFORMATION

Ordering	Number	Dookogo	Pin Assignment			Deaking
Lead Free	Halogen Free	Package	1	2	3	Packing
UD2195L-AA3-R	UD2195G-AA3-R	SOT-223	В	С	Е	Tape Reel
UD2195L-AB3-R	UD2195G-AB3-R	SOT-89	В	С	Е	Tape Reel

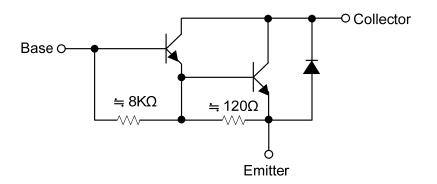
Note: Pin Assignment: B: Base C: Collector E: Emitter

UD2195G-AA3-R	
(1)Packing Type	(1) R: Tape Reel
(2)Package Type	(2) AA3: SOT-223, AB3: SOT-89
(3)Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free

MARKING

SOT-89	SOT-223		
UD2195 L: Lead Free G: Halogen Free	UD2195 UD2195 G: Halogen Free → Date Code 1		

EQUIVALENT CIRCUIT





■ **ABSOLUTE MAXIMUM RATING** (T_A=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V _{CBO}	130	V
Collector-Emitter Voltage		V _{CEO}	120	V
Emitter-Base Voltage		V _{EBO}	5	V
Collector Current	DC	lc	4	^
	Pulse(Note 2)		6	A
Collector Dissipation	SOT-223	Pc	1	W
	SOT-89	ГС	0.6	W
Junction Temperature		TJ	+150	°C
Storage Temperature		T _{STG}	-55 ~ +150	°C

Notes: 1. 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.

THERMAL CHARACTERISTICS

PARAMETER		SYMBOL	RATINGS	UNIT	
Junction to Ambient	SOT-223	0	125	°C/W	
	SOT-89	θJA	208	°C/W	

Note: Device mounted on FR-4 substrate PC board, 2oz copper, with 1inch square copper plate.

■ ELECTRICAL CHARACTERISTICS

MAX L	UNIT						
	V						
	V						
2.8	V						
1	mΑ						
2	mΑ						
2	mΑ						
ON CHARACTERISTICS							
	1						
2	V						
SMALL-SIGNAL CHARACTERISTICS							
200	pF						
	2						

Note: Pulse test: Pulse Width \leq 380µs, Duty Cycle \leq 2%



^{2.} Pulse test: Pulse Width \leq 350µs, Duty Cycle \leq 2%.

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