UNISONIC TECHNOLOGIES CO., LTD

UD2195

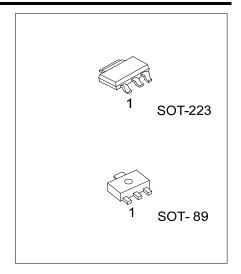
Preliminary

NPN SILICON TRANSISTOR

NPN EPITAXIAL PLANAR TRANSISTOR

DESCRIPTION

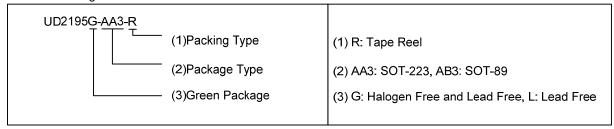
The UTC UD2195 is designed for use in general purpose amplifier and low speed switching application.



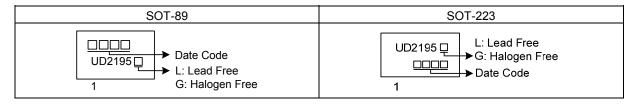
ORDERING INFORMATION

Ordering Number		Doolsons	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	

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

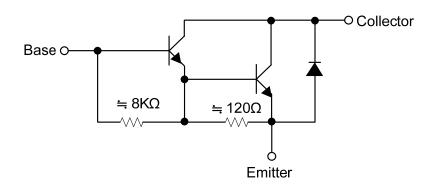


MARKING



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■ 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	1	4	А	
	Pulse(Note 2)	lc	6		
Collector Dissination	SOT-223	D.	1	W	
Collector Dissipation SOT-89		0.6	W		
Junction Temperature		T_J	+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 DATA

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

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

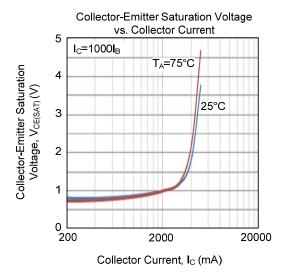
■ ELECTRICAL CHARACTERISTICS

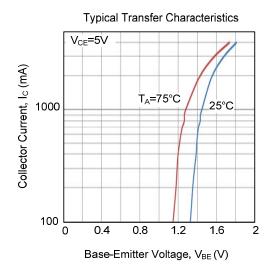
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{C}=100\mu A, I_{E}=0$	130			V	
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_C=1$ mA, $I_B=0$	120			V	
Base-Emitter Turn-On Voltage	$V_{BE(ON)}$	V_{CE} =4V, I_{C} =2A			2.8	V	
Collector Cutoff Current	I _{CBO}	V_{CB} =100V, I_{E} =0			1	mA	
Collector Cutoff Current	I _{CEO}	V _{CE} =50V, I _B =0			2	mA	
Emitter Cutoff Current	I _{EBO}	V_{EB} =5V, I_C =0			2	mA	
ON CHARACTERISTICS							
DC Current Gain (Note)	h _{FE}	V _{CE} =4V, I _C =1A	1000				
De current dani (Note)		V_{CE} =4V, I_{C} =2A	500				
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I _C =2A, I _B =2mA			2	V	
SMALL-SIGNAL CHARACTERISTICS							
Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0A, f=1MHz			200	pF	

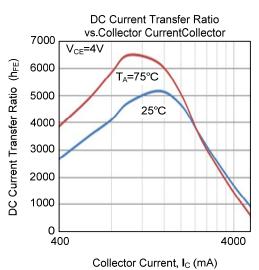
Note: Pulse test: Pulse Width \leq 380 μ s, Duty Cycle \leq 2%

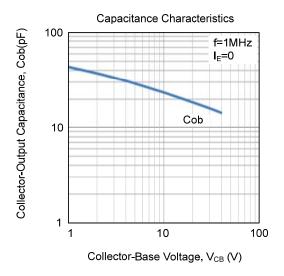
^{2.} Pulse test: Pulse Width \le 350 μ s, Duty Cycle \le 2%.

■ TYPICAL CHARACTERISTICS









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NS 2N5769 2SC2412KT146S CPH6501-TL-E MCH4021-TL-E MJE340 Jantx2N5416 US6T6TR NJL0281DG 732314D CPH3121-TL-E

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