

UNISONIC TECHNOLOGIES CO., LTD

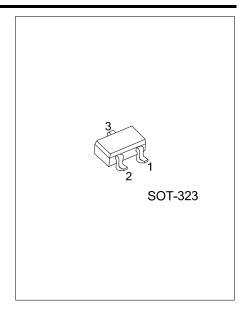
2SC4774

NPN SILICON TRANSISTOR

HIGH FREQUENCY AMPLIFIER TRANSISTOR, RF SWITCHING (6V, 50mA)

FEATURES

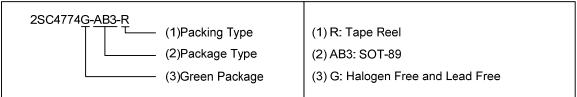
- * Very low output-on resistance (RoN).
- * Low capacitance.



ORDERING INFORMATION

Order Number	Package	Pin Assignment			Deaking	
		1	2	3	Packing	
2SC4774G-AB3-R	SOT-323	Е	В	С	Tape Reel	

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



MARKING



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

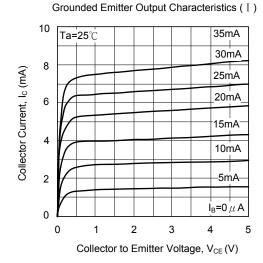
PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	12	V
Collector-Emitter Voltage	$V_{\sf CEO}$	6	V
Emitter-Base Voltage	V_{EBO}	3	V
Collector Current	Ic	50	mA
Collector Power Dissipation	P_{D}	0.2	W
Junction Temperature	T_J	+150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

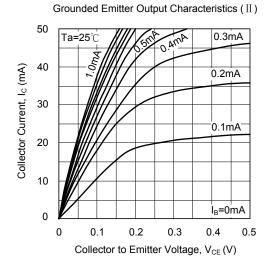
Note Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

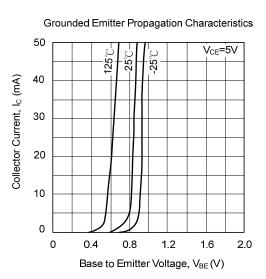
■ ELECTRICAL SPECIFICATIONS (T_A=25°C, unless otherwise specified)

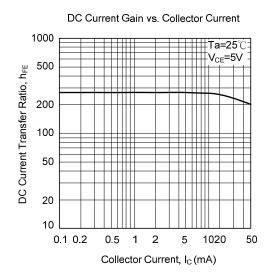
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =10μA	12			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =1mA	6			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =10μA	3			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	$I_{C}/I_{B} = 10$ mA/1mA			0.3	V
Collector Cutoff Current	I _{CBO}	V _{CB} =10V			0.5	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =2V			0.5	μA
DC Current Transfer Ratio	h _{FE}	$V_{CE}/I_{C} = 5V/5mA$	270		560	
Transition Frequency	f _T	$V_{CE} = 5V$, $I_{E} = -10$ mA, $f = 200$ MHz	300	800		MHz
Output Capacitance	C _{ob}	V_{CB} =10V, I_E =0A, f=1MHz		1	1.7	pF
Output-On Resistance	R _{ON}	$I_B = 3mA$, $V_{IN} = 100mVrms$, $f = 500kHz$		2		Ω

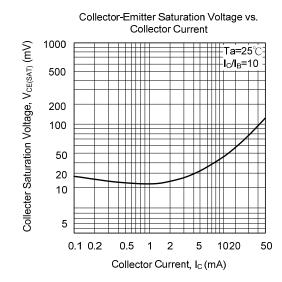
■ TYPICAL CHARACTERISTIC

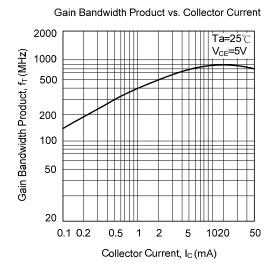




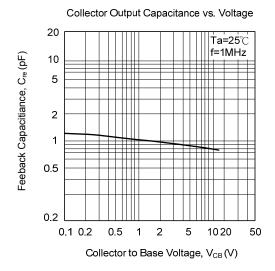


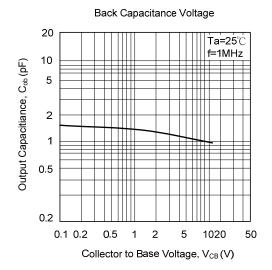


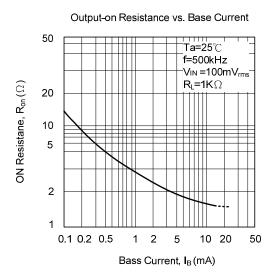




■ TYPICAL CHARACTERISTIC(Cont.)







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