UNISONIC TECHNOLOGIES CO., LTD

2SC5353

NPN SILICON TRANSISTOR

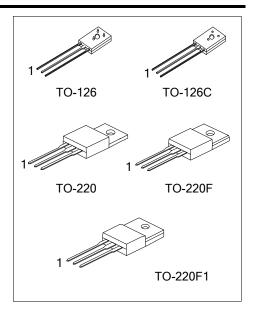
HIGH VOLTAGE NPN **TRANSISTOR**

DESCRIPTION

Switching Regulator and High Voltage Switching Applications High-Speed DC-DC Converter Applications

FEATURES

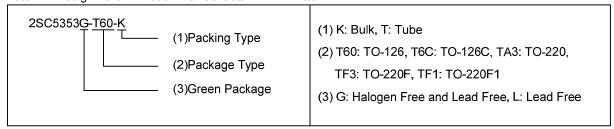
- * Excellent switching times: $t_R = 0.7 \mu s_{(MAX)}$, $t_F = 0.5 \mu s_{(MAX)}$
- * High collectors breakdown voltage: V_{CEO} = 700V



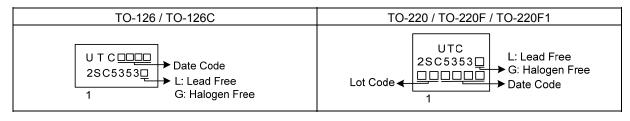
ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Doolsing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC5353L-T60-K	2SC5353G-T60-K	G-T60-K TO-126 B		С	Е	Bulk	
2SC5353L-T6C-K	2SC5353G-T6C-K	TO-126C	В	С	Е	Bulk	
2SC5353L-TA3-T	2SC5353G-TA3-T	TO-220	В	С	Е	Tube	
2SC5353L-TF1-T	2SC5353G-TF1-T	TO-220F1	В	С	Ē	Tube	
2SC5353L-TF3-T	2SC5353G-TF3-T	TO-220F	В	С	E	Tube	

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



MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_C=25°C)

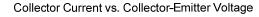
PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	900	V
Collector-Emitter Voltage		$V_{\sf CEO}$	700	V
Emitter-Base Voltage		V_{EBO}	7	V
Collector Current	DC	Ic	3	^
	Pulse	I _{CP}	5	А
Base Current		I_{B}	1	Α
Collector Power Dissipation	TO-220F/ TO-220F1 TO-126/TO-126C	P_D	20	W
	TO-220		25	
Junction Temperature	nction Temperature		+150	°C
Storage Temperature		T_{STG}	-40 ~ +150	°C

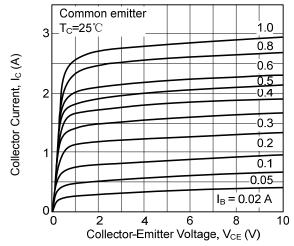
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

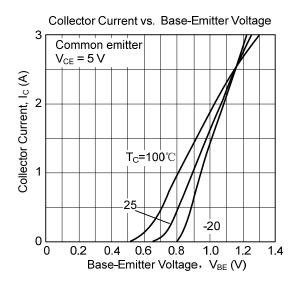
■ ELECTRICAL CHARACTERISTICS (Tc=25°C)

PARAMETER		SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Collector-Base Breakdown Voltage		BV _{CBO}	$I_C=1$ mA, $I_E=0$	900			V
Collector-Emitter Breakdown Voltage		BV _{CEO}	I_{C} =10 mA, I_{B} = 0	700			V
Collector Cut-off Current		I _{CBO}	V _{CB} =720V, I _E = 0			100	μΑ
Emitter Cut-off Current		I _{EBO}	V _{EB} =7V, I _C = 0			10	μA
DC Current Gain		h _{FE1}	V _{CE} =5 V, I _C =1 mA	10			
		h _{FE2}	V _{CE} =5 V, I _C =0.15 A	15			
Collector-Emitter Saturation Voltage		V _{CE(SAT)}	I _C =1.2 A, I _B =0.24 A			1.0	V
Base-Emitter Saturation Voltage V _{BE(SAT)} I _C =1.2 A, I _B =0.24 A		I _C =1.2 A, I _B =0.24 A			1.3	V	
Switching Time	Rise Time	t _R	Output I _C 20µS I _{B1}			0.7	
	Storage Time	t _{s⊤G}				4.0	μS
	Fall Time	t _F	$V_{CC}{pprox}360V$ $I_{B1}=0.24$ A, $I_{B2}=-0.48$ A, duty cycle $\leq 1\%$			0.5	
Collector Output Capacitance		C _{ob}	V _{CB} = 0V, f=1MHz		86		pF
			V _{CB} = 10V, f=1MHz		23.5		pF

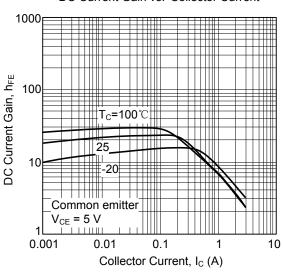
TYPICAL CHARACTERISTICS

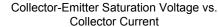


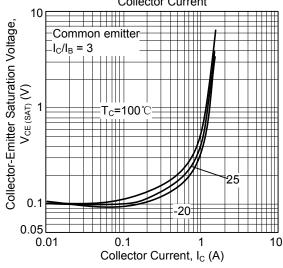




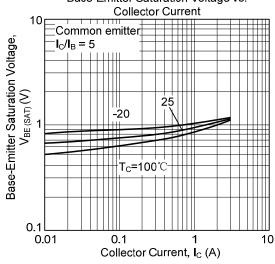
DC Current Gain vs. Collector Current



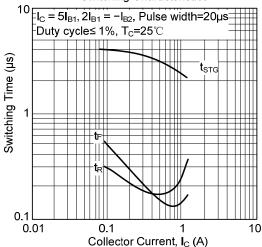




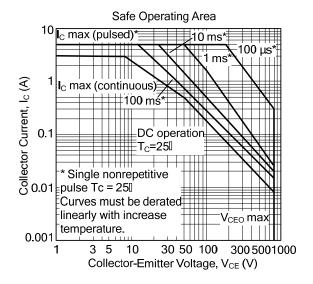
Base-Emitter Saturation Voltage vs.

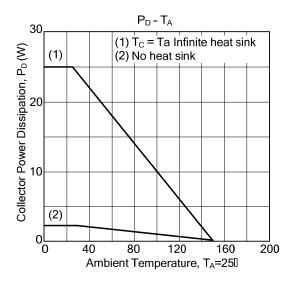


Switching Characteristics



■ TYPICAL CHARACTERISTICS(Cont.)





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