

2SC5353B

NPN SILICON TRANSISTOR

HIGH VOLTAGE NPN TRANSISTOR

DESCRIPTION

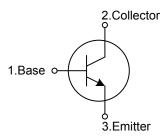
Switching Regulator and High Voltage Switching Applications High-Speed DC-DC Converter Applications.

FEATURES

* Excellent switching times: $t_R = 0.7 \mu s_{(MAX)}$, $t_F = 0.5 \mu s_{(MAX)}$

* High collectors breakdown voltage: V_{CEO} = 750V

SYMBOL



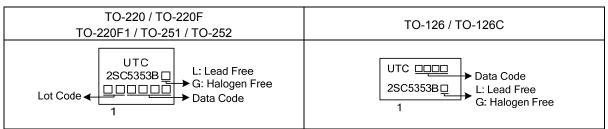
ORDERING INFORMATION

1	1			
TO-126	TO-126C			
1	1			
TO-220	TO-220F			
1	1			
TO-220F1	TO-251			
1				
TO-252				

Ordering Number		Package	Pin Assignment			Deaking	
Lead Free	Lead Free Halogen Free		1	2	3	Packing	
2SC5353BL-T60-K	2SC5353BL-T60-K 2SC5353BG-T60-K		В	С	Е	Bulk	
2SC5353BL-T6C-K	2SC5353BL-T6C-K 2SC5353BG-T6C-K		В	С	Е	Bulk	
2SC5353BL-TA3-T 2SC5353BG-TA3-T		TO-220	В	С	Ш	Tube	
2SC5353BL-TF3-T	2SC5353BL-TF3-T 2SC5353BG-TF3-T		В	С	Ш	Tube	
2SC5353BL-TF1-T	2SC5353BL-TF1-T 2SC5353BG-TF1-T		В	С	Ш	Tube	
2SC5353BL-TM3-T	2SC5353BL-TM3-T 2SC5353BG-TM3-T		В	С	Ш	Tube	
2SC5353BL-TN3-R 2SC5353BG-TN3		TO-252	В	С	Е	Tape Reel	
Note: Pin Assignment: E: Emitter B: Base C: Collector							
2SC5353BL- <u>T60</u> -T	(1) K: Bulk, T: Tube, R: Tape Reel						
	— (1)Packing Type	(2) T60: TO-126, T6C: TO-126C, TA3: TO-220,					
	TF3: TO-220F, TM3: TO-251, TN3: TO-252						
	— (3)Green Package	TF1: TO-220F1					
	(-)	(3) L: Lead Free, G: Halogen Free and Lead Free					

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MARKING





PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage	ector-Base Voltage		900	V
Collector-Emitter Voltage		V _{CEO}	750	V
Emitter-Base Voltage		V _{EBO}	7	V
Collector Current	DC	lc	3	А
	Pulse	ulse I _{CP} 5		А
Base Current		I _B	1	
Power Dissipation	TO-126/TO-126C TO-220F/TO-220F1	5	20	W
	TO-220	P _D	25	W
	TO-251/TO-252		22	W
Junction Temperature		T」 +150		°C
Storage Temperature		T _{STG}	-40 ~ +150	°C

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

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_c = 25°C unless otherwise specified)

		i			i		i
PAF	RAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Collector-Base Breakdown Voltage		BV _{CBO}	I _C =1 mA, I _E = 0	900			V
Collector-Emitte	r Breakdown Voltage	BV _{CEO}	I _C =10 mA, I _B = 0	750			V
Collector Cut-off	Current	I _{CBO}	V _{CB} =720V, I _E = 0			100	μA
Emitter Cut-off C	Current	I _{EBO}	V _{EB} =7V, I _C = 0			10	μA
DC Current Gain		h _{FE1}	V _{CE} =5 V, I _C =1 mA V _{CE} =5 V, I _C =0.15 A				
		h _{FE2}					
Collector-Emitte	r Saturation Voltage	V _{CE(SAT)}	I _C =1.2 A, I _B =0.24 A			1.0	V
Base-Emitter Sa	turation Voltage	V _{BE(SAT)}	I _C =1.2 A, I _B =0.24 A			1.3	V
Switching Time	Rise Time	t _R	Output Ic ↓≶ 88 20µS			0.7	μS
	Storage Time	t _{stg}				4.0	μS
	Fall Time	t⊧	V _{CC} ≈360V I _{B1} = 0.24 A, I _{B2} = −0.48 A, duty cycle ≤ 1%			0.5	μS

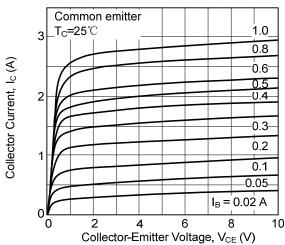


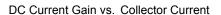
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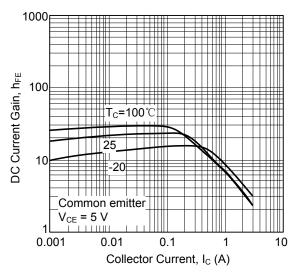
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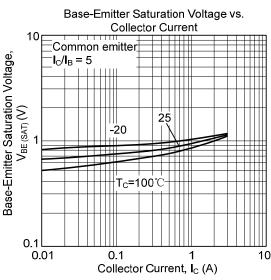
TYPICAL CHARACTERISTICS

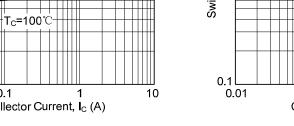
Collector Current vs. Collector-Emitter Voltage



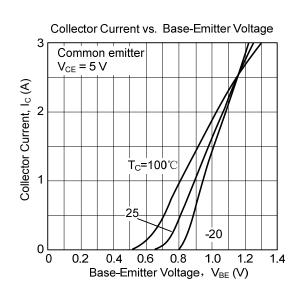


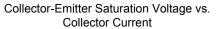


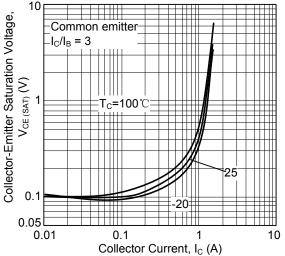


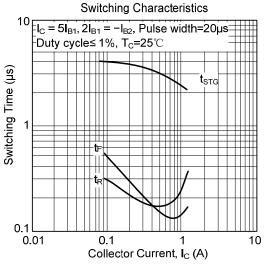




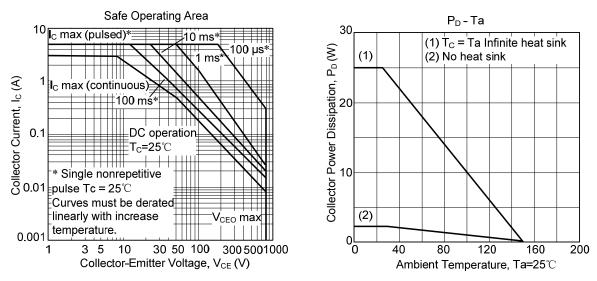












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