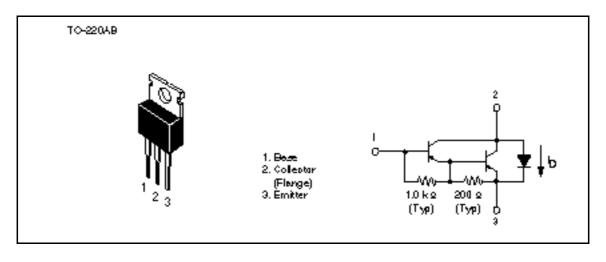
Silicon PNP Triple Diffused

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Application

Power switching complementary pair with 2SD1126(K)

Outline





Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Rating	Unit	
Collector to base voltage	V _{CBO}	-120	V	
Collector to emitter voltage	V _{CEO}	-120	V	
Emitter to base voltage	V _{EBO}	-7	V	
Collector current	Ι _c	-10	А	
Collector peak current	I _{C(peak)}	-15	А	
C to E diode forward current	<mark>ا</mark> ک ^{*1}	10	А	
Collector power dissipation	P _c * ²	50	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

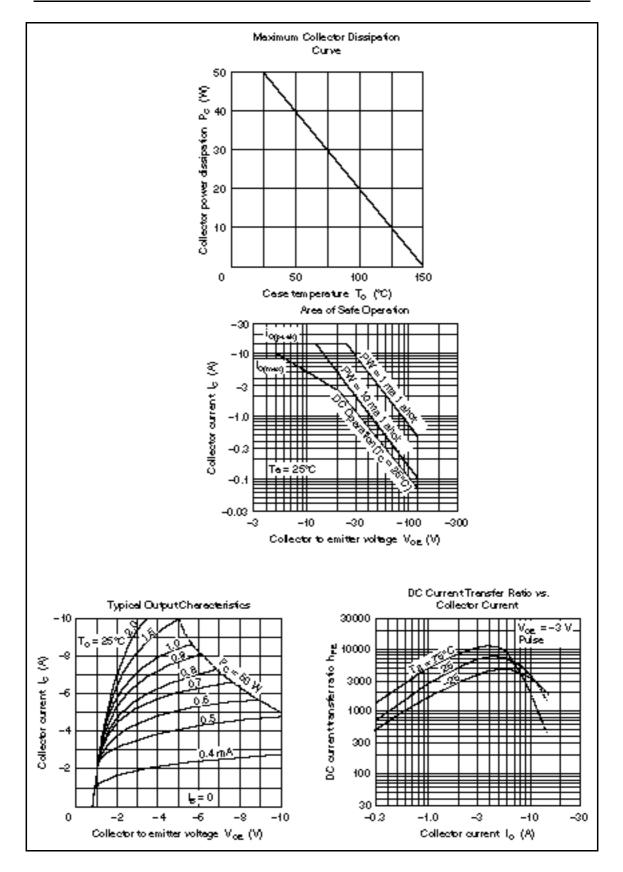
Notes: 1. Value at $T_c = 25^{\circ}C$

2. PW 1 ms 1 shot

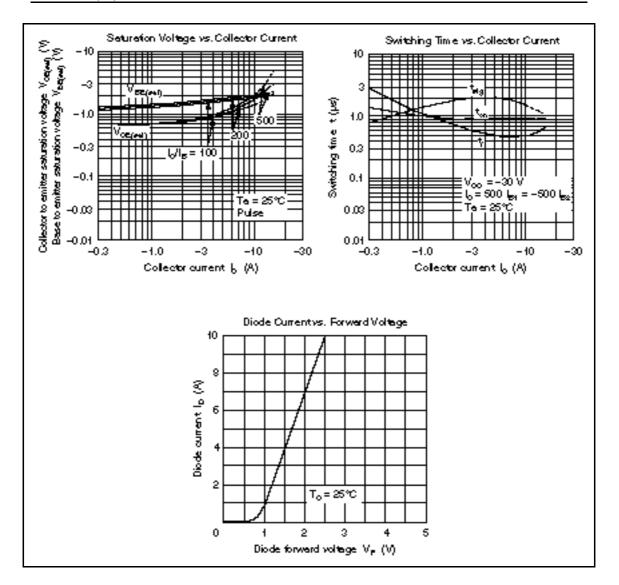
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	-120	_	—	V	$I_c = -25$ mA, $R_{BE} =$
Emitter to base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	-7	_	_	V	$I_{\rm E} = -200$ mA, $I_{\rm C} = 0$
Collector cutoff current	I _{CBO}	_	_	-100	μA	$V_{CB} = -120 V, I_{E} = 0$
	I _{CEO}	_	_	-10	μA	$V_{ce} = -100 \text{ V}, \text{ R}_{be} =$
DC current transfer ratio	h_{FE}	1000	_	20000		$V_{ce} = -3 V, I_c = -5 A^{*1}$
Collector to emitter saturation	$V_{\text{CE(sat)1}}$	_	—	-1.5	V	$I_{\rm c} = -5 \text{ A}, I_{\rm B} = -10 \text{ mA}^{*1}$
voltage	$V_{CE(sat)2}$	_	—	-3.0	V	$I_{\rm c} = -10$ A, $I_{\rm B} = -0.1$ A ^{*1}
Base to emitter saturation	$V_{\text{BE(sat)1}}$	_	—	-2.0	V	$I_{\rm c} = -5$ A, $I_{\rm B} = -10$ mA ^{*1}
voltage	$V_{\text{BE(sat)2}}$	_	_	-3.5	V	$I_{\rm c} = -10$ A, $I_{\rm B} = -0.1$ A ^{*1}
C to E diode forward voltage	V _D	_	_	3.0	V	$I_{\rm D} = 10 \ {\rm A}^{*1}$
Turn on time	t _{on}	—	0.8	—	μs	$V_{cc} = -30 \text{ V}$
Turn off time	t _{off}	—	4.0	_	μs	$I_{\rm C} = -5 \text{ A}, I_{\rm B1} = -I_{\rm B2} = -10 \text{ mA}$

Note: 1. Pulse test



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