捷多邦,专业PCB打样工厂,24小时加急出货

查询2\$B828供应商

Ordering number:722G

PNP/NPN Epitaxial Planar Silicon Tranasistors

2SB828/2SD1064

50V/12A Switching Applications

Applications

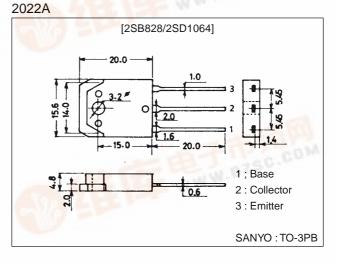
• Relay drivers, high-speed inverters, converters, and other general high-current switching applications.

Features

- Low-saturation collector-to-emitter voltage : $V_{\mu} = 0.5V(\text{PND}) = 0.4V(\text{NPN})$ may
- $V_{CE(sat)} = -0.5V(PNP), 0.4V(NPN)$ max.
- Wide ASO leading to high resistance to breakdown.

Package Dimensions

unit:mm



():2SB828

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(–)60	V
Collector-to-Emitter Voltage	VCEO		(–)50	V
Emitter-to-Base Voltage	V _{EBO}		(–)6	V
Collector Current	۱ _C		()12	A
Collector Current (Pulse)	ICP		(–)17	А
Collector Dissipation	PC	Tc=25°C	80	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		–55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	Ісво	V _{CB} =(-)40V, I _E =0			(–)0.1	mA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0			(–)0.1	mA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)1A	70*	1	280*	1000
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)5A	30	- 1.1	1.4	10 M
Gain-Bandwidth Product	fT	V _{CE} =(-)5V, I _C =(-)1A		10	1970	MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)6A, I _B =(-)0.3A	11.10		0.4	V
					(-0.5)	V

* : The 2SB828/2SD1064 are classified by 1A h_{FE} as follows :

70 Q 140 100 R 200 140 S 280

Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.

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2SB828/2SD1064

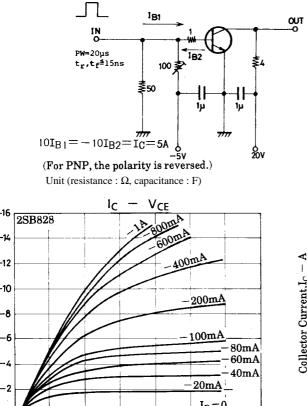
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)1mA, I _E =0	(–)60			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(−)1mA, R _{BE} =∞	(–)50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =(-)1mA, I _C =0	(–)6			V
Turn-ON Time	ton	See specified Test Circuit		(0.2)		μs
				0.1		μs
Fall Time	t _f	See specified Test Circuit		(0.4)		μs
				1.2		μs
Storage Time	tstg	See specified Test Circuit		(0.1)		μs
				0.05		μs

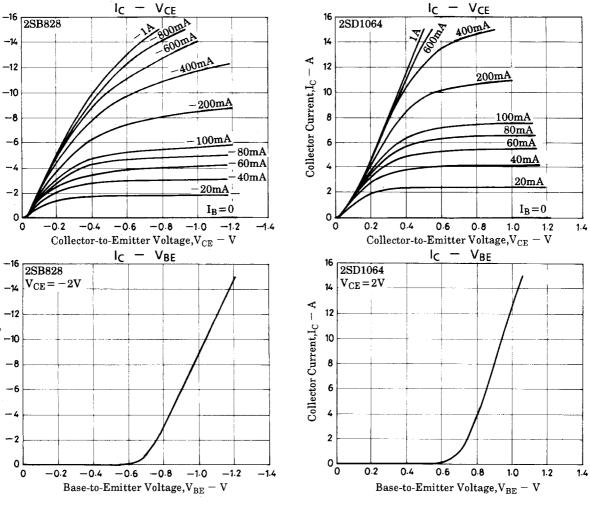
Switching Time Test Circuit

V -

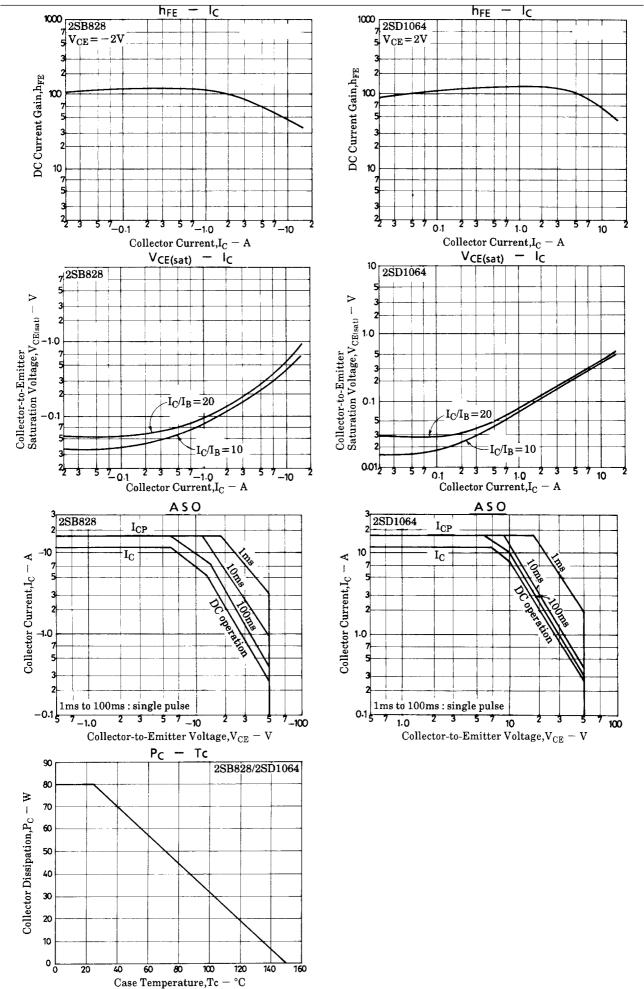
Collector Current,I_C

Collector Current, $I_C - A$





2SB828/2SD1064



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