

INCHANGE SEMICONDUCTOR

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isc Silicon PNP Power Transistor

2SB1019

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 DESCRIPTION Low Collector Saturation Voltage- : V_{CE(sat)}= -0.4V(Max)@I_C= -4A Good Linearity of h_{FE} Complement to Type 2SD1412 Minimum Lot-to-Lot variations for robust device performance and reliable operation 				12	3		3 1 Bas 2 Col 3 Emi 20Fa p	lect
Power	TIONS urrent switching applications. amplifier applications. TE MAXIMUM RATINGS(Ta=2.	© 5°C)			B G G	→ S •	• .	Ć
SYMBOL	PARAMETER	VALUE	UNIT		th th			n h
V _{CBO}	Collector-Base Voltage	-70	v	Ķ	ųμ			
V _{CEO}	Collector-Emitter Voltage	-50	V		ļļ			
V_{EBO}	Emitter-Base Voltage	-5	V			→ R ≪C	-	-N
lc	Collector Current-Continuous	-7	Α		DIM	MIN	m Max	3
		-			A	16.85	17.15	
IB	Base Current-Continuous	-1	A		B C	9.54	10.10	-
IB	Dase ourient-continuous		~		D	0.75	4.65 0.90	
Pc	Collector Power Dissipation @ $T_a=25^{\circ}C$ Collector Power Dissipation @ $T_c=25^{\circ}C$	2 30			F	3.20	3.40	
			W		G	6.90	7.20	
					H J	5.15 0.45	5.45	
					K	13.35	0.75	1
					L	1.10	1.30	
					N	4.98	5.18	
	Junction Temperature	150	°C		Q	4.85	5.15	
TJ	Junction remperature							- 1 C
TJ					R	2.55	3.25	8
TJ T _{stg}	Storage Temperature Range	-55~150	°C		R S U	2.55 2.70 1.75	3.25 2.90 2.05	2



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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	мах	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= -30mA; I _B = 0	-50			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-0.4	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -4A; I _B = -0.4A			-1.2	V
Ісво	Collector Cutoff Current	V _{CB} = -70V; I _E = 0			-30	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-50	μA
h _{FE-1}	DC Current Gain	Ic= -1A; Vc= -1V	70		240	
h _{FE-2}	DC Current Gain	I _C = -4A; V _{CE} = -1V	30			

h_{FE-1} Classifications

0	Y		
70-140	120-240		

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