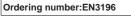
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NPN Epitaxial Planar Silicon Transistor

Motor Driver Applications

2SD2176



Features

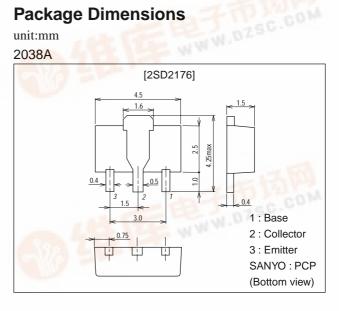
- · Darlington connection.
- · On-chip Zener diode of 60±10V between collector and base.

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- · High inductive load handling capability.
- · Small-sized package.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO	On-chip Zener diode (60±10V)	50	V
Collector-to-Emitter Voltage	VCEO	On-chip Zener diode (60±10V)	50	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	IC	The second s	1.2	A
Collector Current (Pulse)	ICP	and the second	2.5	А
Base Current	۱ _B		0.2	А
Collector Dissipation	PC	Mounted on ceramic board (250mm ² ×0.8mm)	1.3	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg	D'and	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

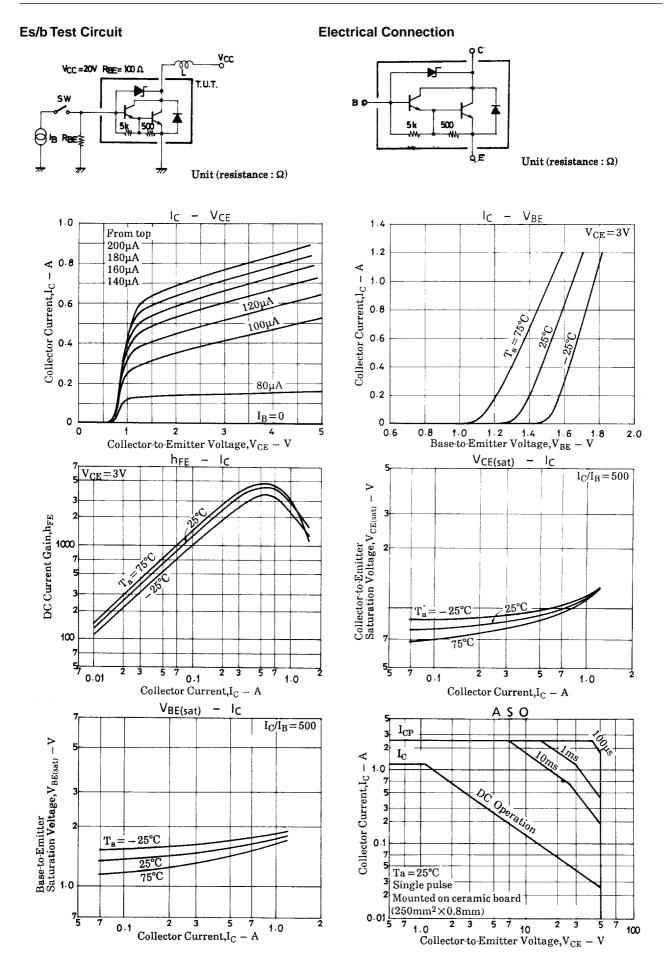
Symbol	Conditions	Ratings			Unit
		min	typ	max	Unit
ICBO	V _{CB} =40V, I _E =0			10	μA
IEBO	V _{EB} =5V, I _C =0		-	2	mA
h _{FE}	V _{CE} =3V, I _C =500mA	1000	-	20000	10.34
V _{CE(sat)}	I _C =500mA, I _B =1mA		1.0	1.5	V
VBE(sat)	IC=500mA, IB=1mA	GL VI	1.5	2	V
V(BR)CBO	I _C =100µA, I _E =0	50		70	V
V(BR)CEO	I _C =1mA, R _{BE} =∞	50		70	V
Es/b	L=30mH, R _{BE} =100Ω	15			mJ
	ICBO IEBO hFE VCE(sat) VBE(sat) V(BR)CBO V(BR)CEO	ICBO VCB=40V, IE=0 IEBO VEB=5V, IC=0 hFE VCE=3V, IC=500mA VCE(sat) IC=500mA, IB=1mA VBE(sat) IC=500mA, IB=1mA V(BR)CBO IC=100µA, IE=0 V(BR)CEO IC=1mA, RBE=∞	Image min ICBO VCB=40V, IE=0 IEBO VEB=5V, IC=0 hFE VCE=3V, IC=500mA VCE(sat) IC=500mA, IB=1mA VBE(sat) IC=500mA, IB=1mA V(BR)CBO IC=100µA, IE=0 V(BR)CEO IC=1mA, RBE=∞	Symbol Conditions min typ ICBO VCB=40V, IE=0 <td>Symbol Conditions min typ max ICBO VCB=40V, IE=0 10 10 IEBO VEB=5V, IC=0 22 hFE VCE=3V, IC=500mA 1000 20000 VCE(sat) IC=500mA, IB=1mA 1.0 1.5 VBE(sat) IC=500mA, IB=1mA 1.5 2 V(BR)CBO IC=100µA, IE=0 50 70 V(BR)CEO IC=1mA, RBE=∞ 50 70</td>	Symbol Conditions min typ max ICBO VCB=40V, IE=0 10 10 IEBO VEB=5V, IC=0 22 hFE VCE=3V, IC=500mA 1000 20000 VCE(sat) IC=500mA, IB=1mA 1.0 1.5 VBE(sat) IC=500mA, IB=1mA 1.5 2 V(BR)CBO IC=100µA, IE=0 50 70 V(BR)CEO IC=1mA, RBE=∞ 50 70

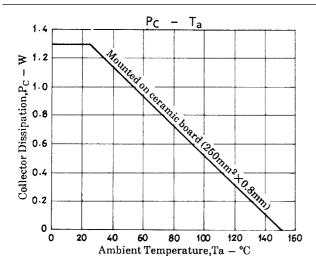
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