

isc Silicon PNP Power Transistor

DESCRIPTION

- Suitable for middle power drivers
- High voltage:V_{CEO}=-160V
- Complementary NPN types:2SD1918
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

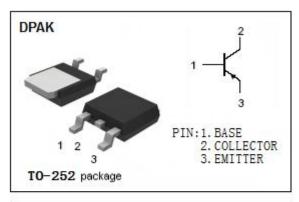


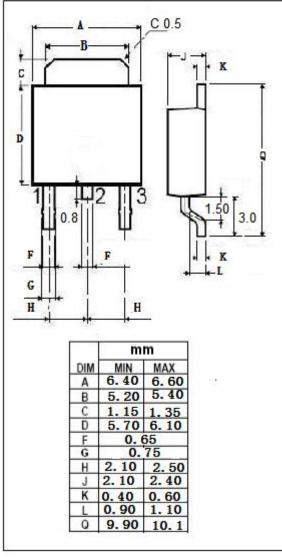
APPLICATIONS

Motor drivers, LED driver, Power supply

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
Vсво	Collector-Base Voltage	-160	V	
V _{CEO}	Collector-Emitter Voltage	-160	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
lc	Collector Current-Continuous	-1.5	Α	
Ісм	Collector Current-Peak	-3.0	Α	
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	10	W	
TJ	Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SB1275

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base breakdown voltage	I _C =-50uA	-160			V
BV _{CEO}	Collector-Emitter breakdown voltage	I _C =-1mA	-160			V
BV _{EBO}	Emitter-Base breakdown voltage	I _E =-50uA	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -1A; I _B = -100mA			-2.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = -1A; I _B = -100mA			-1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-1.0	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -4V; I _C = 0			-1.0	μА
h _{FE}	DC Current Gain	I _C = -0.1A; V _{CE} = -5V	56		180	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1.0MHz		30		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -0.1A; V _{CE} = -10V,f= 100MHz		50		MHz

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