

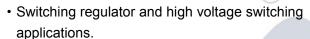
isc Silicon NPN Power Transistor

2SD1518

DESCRIPTION

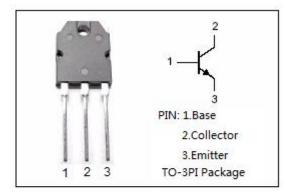
- High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 400V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

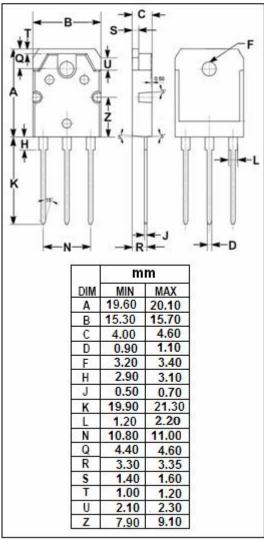
APPLICATIONS



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	900	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base voltage	7	V
Ic	Collector Current-Continuous 6		А
Ісм	Collector Current-Pulse	10	А
I _B	Base Current-Continuous 3		А
Pc	Collector Power Dissipation @ T _C =25℃ 50		W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			5.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2.5A; I _B = 0.5A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 900V; I _E = 0			1.0	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1.0	mA
h _{FE-1}	DC Current Gain	Ic= 10mA ; V _{CE} = 5V	8			
h _{FE-2}	DC Current Gain	I _C = 0.6A; V _{CE} = 5V	10		40	
f _T	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		5		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		75		pF
t _f	Fall Time	I _C = 2.5A; I _{B1} = 0.5A; I _{B2} = 1A			0.5	μ S

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2