

isc Silicon NPN Power Transistor

2SD2333

DESCRIPTION

- High Breakdown Voltage-
 - : V_{CBO}= 1500V (Min)
- · High Switching Speed
- High Reliability
- · Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

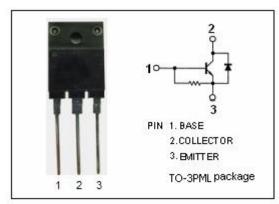


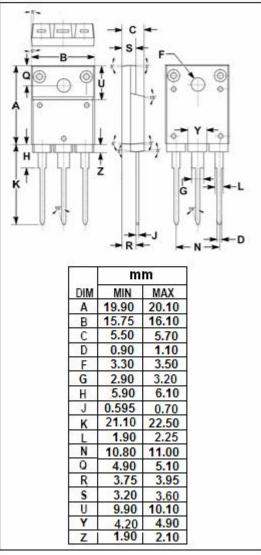
APPLICATIONS

· Designed for horizontal output applicaitions



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current- Continuous	5	А
I _B	Base Current- Continuous	2.5	А
P _C	Collector Power Dissipation @ T _C =25℃	80	W
TJ	Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range -55-		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 200mA ; I _C = 0	5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			10	μА
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8		30	
V _{ECF}	C-E Diode Forward Voltage	I _F = 5A			2.0	٧
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		165		pF
t _f	Fall Time	I _{CP} = 4A , I _{B1(end)} = 0.8A			1.0	μS

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