

isc Silicon NPN Power Transistor

DESCRIPTION

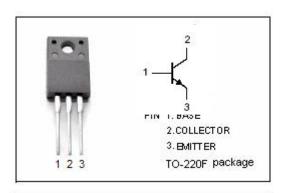
- · Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 80V(Min)
- · Collector Power Dissipation-
- : Pc= 25W@ Tc= 25℃
- · Low Collector Saturation Voltage-
 - : $V_{CE(sat)}$ = 1.7V(Max)@ (I_C = 3A, I_B = 0.3A)
- Complement to Type 2SB1368
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

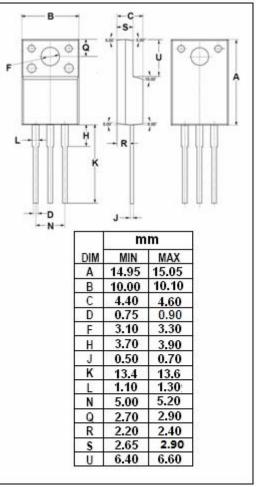
APPLICATIONS

• Designed for general purpose applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	4	А
I _B	Base Current-Continuous	0.4	А
Pc	Collector Power Dissipation @T _C =25°C	25	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$







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2SD2060

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	80			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.7	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 3A; V _{CE} = 5V			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 80V; I _E = 0			30	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА
h _{FE-1}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	40		240	
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	15			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1MHz		90		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		8		MHz

♦ h_{FE-1} Classifications

R	0	Y
40-80	70-140	120-240

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