

ISC Silicon NPN Power Transistor

DESCRIPTION

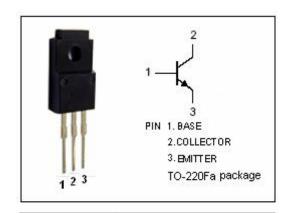
- · Low Collector Saturation Voltage
 - : V_{CE(sat)}= 2.0V(Max)@ I_C= 2A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V (Min)
- · Good Linearity of hFE
- Complement to Type 2SB1052
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

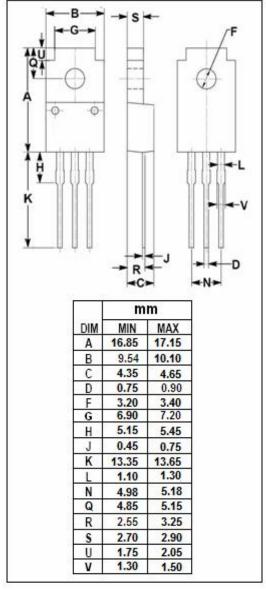


· Designed for power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	6	V	
Ic	Collector Current-Continuous	2	А	
I _{CM}	Collector Current-Peak	4	А	
	Collector Power Dissipation @ T _C =25℃	25	\A/	
Pc	Collector Power Dissipation @ T _a =25℃	2	W	
TJ	Junction Temperature 150 °C		$^{\circ}$	
T _{stg}	Storage Temperature Range -55~1		°C	







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2SD1480

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	60			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			2.0	V	
V _{BE(on)}	Base-Emitter On Voltage	Ic= 1A; V _{CE} = 4V			1.2	V	
I _{CES}	Collector Cutoff Current	V _{CE} = 60V; V _{BE} = 0			200	μА	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1	mA	
h _{FE-1}	DC Current Gain	Ic= 0.1A; V _{CE} = 4V	35				
h _{FE-2}	DC Current Gain	I _C = 1A; V _{CE} = 4V	70		250		
Switching times							
ton	Turn-on Time			0.2		μ S	
t _{stg}	Storage Time	I _C = 1A; I _{B1} = I _{B2} = 0.1A		3.5		μS	
t _f	Fall Time			0.7		μ S	

♦ h_{FE-1} classifications

Q	Р
70-150	120-250

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