

ISC Silicon NPN Power Transistor

DESCRIPTION

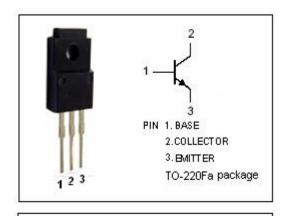
- · Low Collector Saturation Voltage
 - : V_{CE(sat)}= 0.5V(Max)@ I_C= 2A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 80V (Min)
- · Good Linearity of hFE
- Complement to Type 2SB943
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

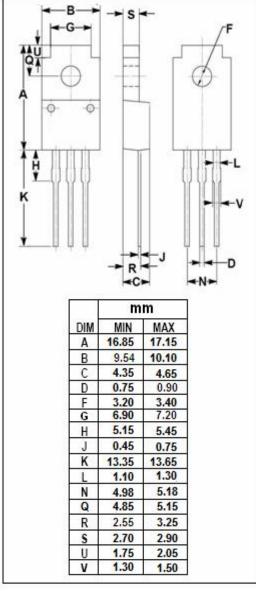
APPLICATIONS

· Designed for power switching applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	130	V	
V _{CEO}	Collector-Emitter Voltage	80	V	
V _{ЕВО}	Emitter-Base Voltage	7	V	
lc	Collector Current-Continuous	Α		
I _{CM}	Collector Current-Peak	6	Α	
Pc	Collector Power Dissipation @ T _C =25℃	30	W	
	Collector Power Dissipation @ T _a =25℃	2		
TJ	Junction Temperature 150		°C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$	







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2SD1268

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

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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 = 2A; I _B = 0.1A			0.5	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.1A			1.5	V		
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			10	μА		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			50	μА		
h _{FE-1}	DC Current Gain	Ic= 0.1A; VcE= 2V	45					
h _{FE-2}	DC Current Gain	I _C = 0.5A; V _{CE} = 2V	60		260			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f= 10MHz		30		MHz		
Switching times								
ton	Turn-on Time			0.5		μ \$		
t _{stg}	Storage Time	I _C = 0.5A; I _{B1} = I _{B2} = 50mA; V _{CC} = 50V		2.5		μS		
t _f	Fall Time			0.15		μS		

♦ h_{FE-2} classifications

R	Q	Р
60-120	90-180	130-260

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