

isc Silicon NPN Power Transistor

DESCRIPTION

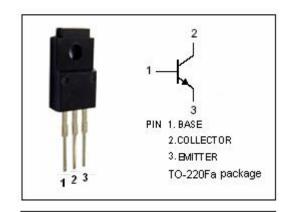
- · Low Collector Saturation Voltage
- : V_{CE(sat)}= 1.2V(Max)@ I_C= 3A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 60V (Min)
- Good Linearity of h_{FE}
- · Complement to Type 2SB941
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

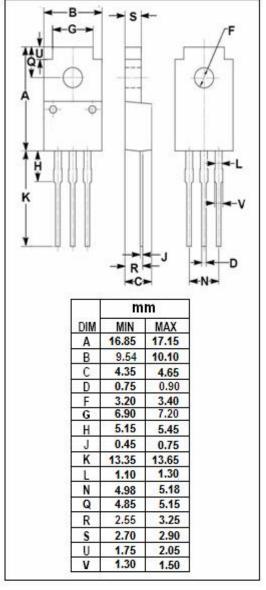


• Designed for power amplification.

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	
lc	Collector Current-Continuous 3		А	
I _{CM}	Collector Current-Peak 5		Α	
P _C	Collector Power Dissipation @ T _C =25℃	35	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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2SD1266

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 30mA ; I _B = 0	60			V	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.375A			1.2	V	
V _{BE(on)}	Base-Emitter On Voltage	r On Voltage I _C = 3A; V _{CE} = 4V			1.8	V	
I _{CES}	Collector Cutoff Current	V _{CE} = 60V; V _{BE} = 0			0.2	mA	
I _{CEO}	Collector Cutoff Current	V _{CE} = 30V; I _B = 0			0.3	mA	
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			1.0	mA	
h _{FE-1}	DC Current Gain	Ic= 1A; Vc= 4V	70		250		
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 4V	10				
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f= 10MHz		30		MHz	
Switching times							
t _{on}	Turn-on Time			0.5		μ S	
t _{stg}	Storage Time	I _C = 1A; I _{B1} = I _{B2} = 0.1A; V _{CC} = 50V		2.5		μS	
t _f	Fall Time			0.4		μ S	

♦ h_{FE-1} classifications

Q	Р		
70-150	120-250		

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