

isc Silicon NPN Power Transistor

DESCRIPTION

- · High breakdown voltage and large current capacity
- · Fast switching speed
- Small and slim package
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation
- Complementary to 2SA1593

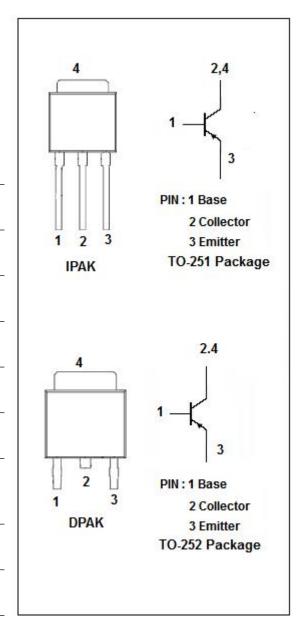


APPLICATIONS

• Power supplies, relay drivers, lamp drivers.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	100	V	
V _{EBO}	Emitter-Base Voltage	6	V	
lc	Collector Current-Continuous	2	А	
Ісм	Collector Current-Peak	3	А	
Pc	Collector Power Dissipation @ T _C =25°C	15	W	
	Collector Power Dissipation @T _a =25℃	1.0		
TJ	Junction Temperature	150	${\mathbb C}$	
T _{stg}	Storage Temperature Range		$^{\circ}$	





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2SC4135

ELECTRICAL CHARACTERISTICS

 T_{C} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.0A; I _B = 0.1A			0.4	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 1.0A; I _B = 0.1A			1.2	V
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 1mA; I _B = 0	100			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = 10uA; I _C = 0	6			V
I _{CBO}	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			100	nA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			100	nA
h _{FE}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	100		400	
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1.0MHz		16		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1mA; V _{CE} = 10V		120		MHz

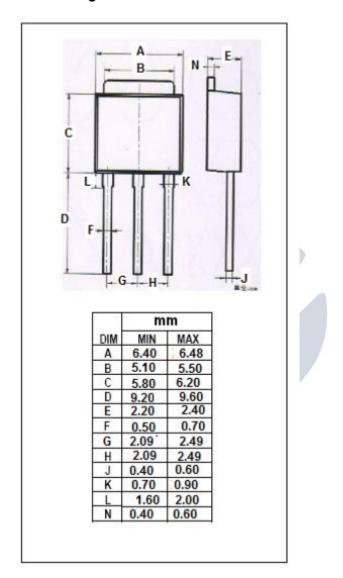
h_{FE} Classifications

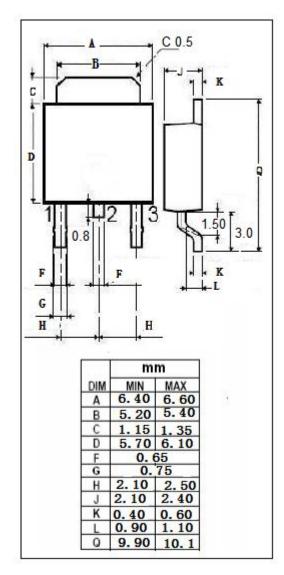
R	S	T
100-200	140-280	200-400



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Outline Drawing





NOTICE:

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