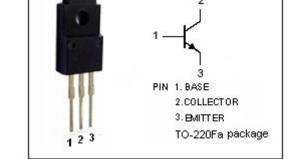


isc Silicon NPN Power Transistor

2SC3795B

DESCRIPTION

- · Collector-Base Breakdown Voltage-
 - : V_{(BR)CBO}= 1000V(Min.)
- Low Collector Saturation Voltage
- · High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

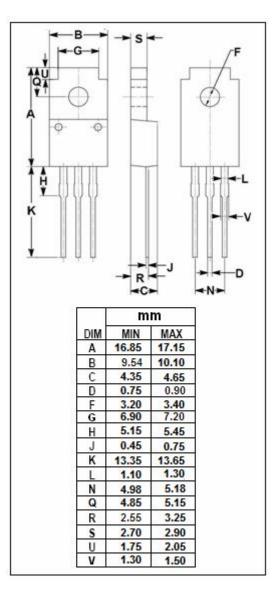


APPLICATIONS

· Designed for high speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1000	V
V _{CES}	Collector-Emitter Voltage	1000	V
V _{CEO}	Collector-Emitter Voltage	500	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	5	Α
Ісм	Collector Current-Peak	10	Α
I _B	Base Current-Continuous	3	Α
Pc	Collector Power Dissipation @T _a =25°C	2	
	Collector Power Dissipation @T _C =25°C	40	W
T _j	Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





isc Silicon NPN Power Transistor

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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 30mA; I _B =0	500			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.0	V		
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.6A			1.5	V		
Ісво	Collector Cutoff Current	V _{CB} = 1000V; I _E = 0			100	μА		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	μА		
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 5V	15					
h _{FE-2}	DC Current Gain	I _C = 3A; V _{CE} = 5V	8					
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 10V; f= 1MHz		8		MHz		
Switching Times								
t _{on}	Turn-on Time				1.0	μS		
ts	Storage Time	I _C = 3A; I _{B1} = -I _{B2} = 0.6A; V _{CC} = 200V			3.0	μS		
t _f	Fall Time				1.0	μS		

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