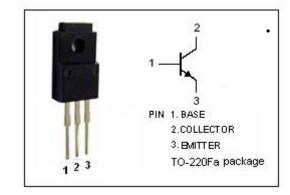


isc Silicon NPN Power Transistor

DESCRIPTION

- · Collector-Emilter Sustaining Voltage-
- : V_{CEO(SUS)}= 500V(Min.)
- · Low Collector Saturation Voltage
 - : V_{CE(sat)}= 1.0V(Max.)@ I_C= 3A
- · High Speed Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

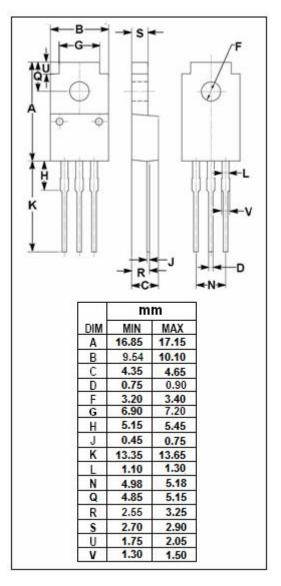


APPLICATIONS

· Designed for high speed switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	800	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	А	
I _B	Base Current-Continuous	3	А	
P _C	Collector Power Dissipation @T _a =25℃	2		
	Collector Power Dissipation @T _C =25°C	40	W	
T _j	Junction Temperature	150	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature Range -55~150		°C	





isc Silicon NPN Power Transistor

2SC3353

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT		
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 20mA; I _B = 0	500			V		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	Ic= 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		
I _{CBO}	Collector Cutoff Current	V _{CB} = 800V; I _E = 0			0.1	mA		
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			0.1	mA		
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	Ic= 0.5A; V _{CE} = 10V		3		MHz		
Switching Times; Resistive Load								
ton	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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