

isc Silicon NPN Power Transistor

2SC3626

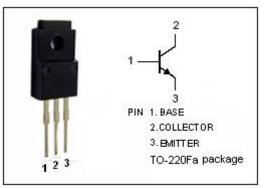
DESCRIPTION

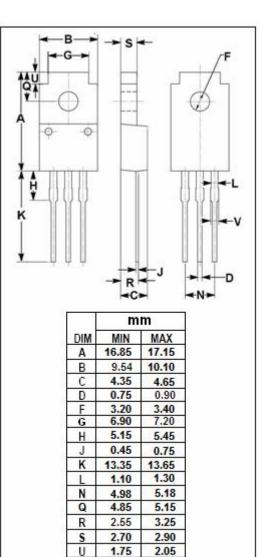
- High Collector-Emitter Breakdown Voltage-
- : V_{(BR)CEO}= 400V(Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching regulator and high voltage switching applications
- High speed DC-DC converter applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	500	v				
V _{CEO}	Collector-Emitter Voltage	400	V				
V _{EBO}	Emitter-Base Voltage	7	V				
lc	Collector Current-Continuous	8	A				
Ісм	Collector Current-Peak	10					
IB	Base Current-Continuous	4	A				
Pc	Collector Power Dissipation @ T _a =25℃	2	w				
	Collector Power Dissipation @ Tc=25℃	40					
TJ	Junction Temperature	150	Ĉ				
T _{stg}	Storage Temperature Range	-55~150	Ĉ				





ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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1.30

1.50



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1.0

μs

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 10mA; I _B = 0	400			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 0	500			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 4A; I _B = 0.8Α			1.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 400V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1	mA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	15			
h _{FE-2}	DC Current Gain	I _C = 4A; V _{CE} = 5V	10			
Switching T	ïmes			I		
tr	Rise Time				1.0	μ S
t _{stg}	Storage Time	I _C = 4A; I _{B1} = -I _{B2} = 0.4A, V _{CC} ≈ 200V, R _L = 50 Ω; P _w = 20 μ s; Duty≤1%			2.5	μ S

Notice:

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Fall Time

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