

isc Silicon NPN Power Transistor

2SC3561

DESCRIPTION

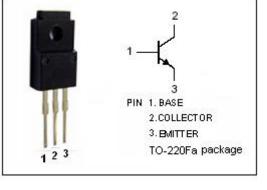
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 450V (Min)
- High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

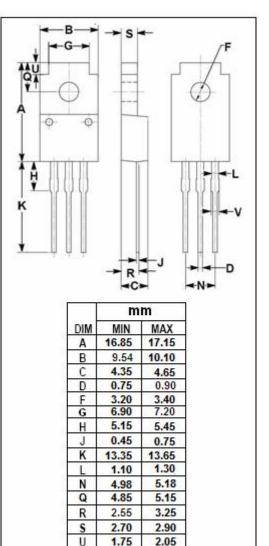
APPLICATIONS

- · 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	450	V	
V _{EBO}	Emitter-Base Voltage 7		V	
Ιc	Collector Current-Continuous	2	А	
Ісм	Collector Current-Peak	4	A	
IB	Base Current-Continuous	0.5	А	
Pc	Collector Power Dissipation @ T_C =25 $^{\circ}C$	20	W	
	Collector Power Dissipation @ T _a =25℃	2		
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	





v

1.30

1.50



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ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	450			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 = 0.8A; I _B = 0.16A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.8A; I _B = 0.16A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			1	mA
h _{FE}	DC Current Gain	I _C = 0.8A; V _{CE} = 5V	10			

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