

isc Silicon NPN Power Transistor

2SC3569

DESCRIPTION

- Low Collector Saturation Voltage
- · High switching speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

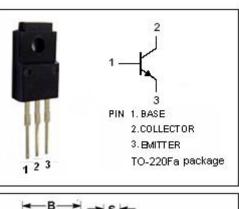
APPLICATIONS

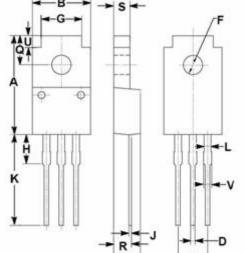
• Especially suited for high voltage, high speed and high power switching applications

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	
Ιc	Collector Current-Continuous	2	А	
І _{СМ}	Collector Current-Pulse	4	А	
I _B	Base Current-Continuous	0.5	А	
Pc	Collector Power Dissipation @ T_c =25 °C	15	W	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature Range	-55~150	°C	

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	m	m
DIM	MIN	MAX
A	16.85	17.15
В	9.54	10.10
C	4.35	4.65
D	0.75	0.90
F	3.20	3.40
G	6.90	7.20
Н	5.15	5.45
J	0.45	0.75
K	13.35	13.65
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.55	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50

isc Website: <u>www.iscsemi.cn</u>



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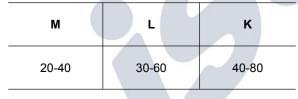
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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; I _B = 0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 0.7A; I _B = 0.14A			1.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 0.7A; I _B = 0.14A			1.2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} =7V; I _C = 0			100	μA
h _{FE-1}	DC Current Gain	I _C = 0.2A ; V _{CE} = 5V	20		80	
h _{FE-2}	DC Current Gain	I _C = 0.5A ; V _{CE} = 5V	10			

h_{FE} Classifications



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