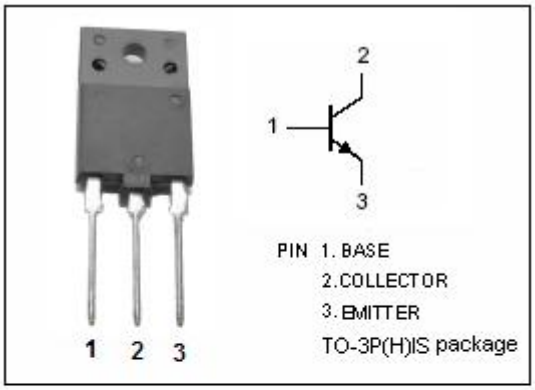
isc Silicon NPN Power Transistor — 2SC5552



DESCRIPTION

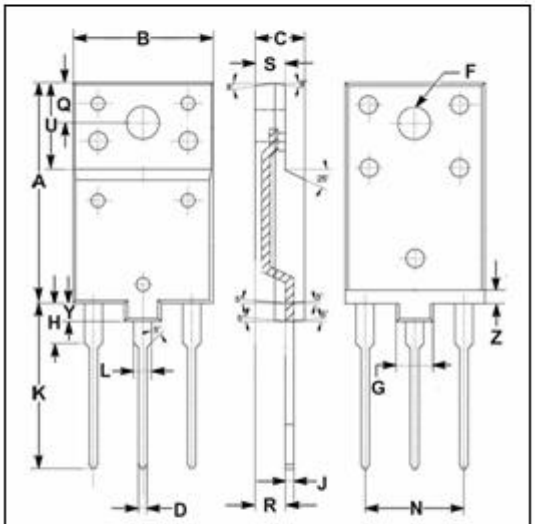
- High Breakdown Voltage
- High Switching Speed
- Low Saturation Voltage
- Wide area of safe operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Character display horizontal deflection output

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1700	V
V_{CEO}	Collector-Emitter Voltage	600	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current- Continuous	16	A
I_{CM}	Collector Current- Continuous	30	A
I_B	Base Current- Continuous	8	A
P_C	Collector Power Dissipation @ T_C=25℃	65	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃



DIM	mm MIN	MAX
A	24.10	24.70
B	15.20	15.80
C	5.20	5.80
D	0.65	1.05
F	3.30	3.90
G	3.90	4.10
H	4.30	4.70
J	0.80	1.00
K	18.30	18.70
L	1.90	2.40
N	10.70	11.10
Q	4.40	4.60
R	3.30	3.70
S	3.20	3.40
U	9.50	9.70
Y	1.90	2.10
Z	1.40	1.60

isc Silicon NPN Power Transistor 2SC5552

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 8A; I_B= 2A			3.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 8A; I_B=2A			1.5	V
I_{CBO}	Collector Cutoff Current	V_{CB}= 1500V; I_E= 0			1.0	mA
I_{EBO}	Emitter Cutoff Current	V_{EB}= 7V; I_C= 0			50	uA
h_{FE}	DC Current Gain	I_C= 8A; V_{CE}= 5V	6		12	
f_T	Current-Gain—Bandwidth Product	I_E= 0.1A ; V_{CE}= 10V		3		MHz
Switching times						
t_{stg}	Storage Time	I_C= 8A , I_{B1}=2A; I_{B2}= -4A;			3.0	μ s
t_f	Fall Time				0.2	μ s

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.