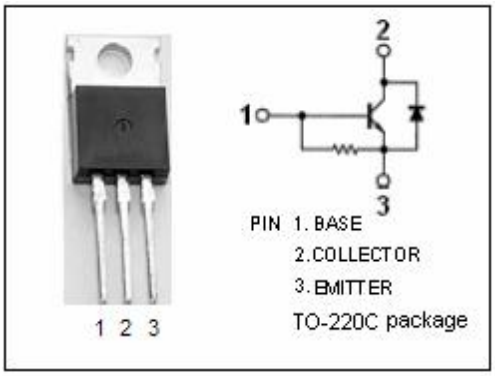
isc Silicon NPN Power Transistor 2SD1069

DESCRIPTION

- High Collector Current Capability
- High Collector Power Dissipation Capability
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

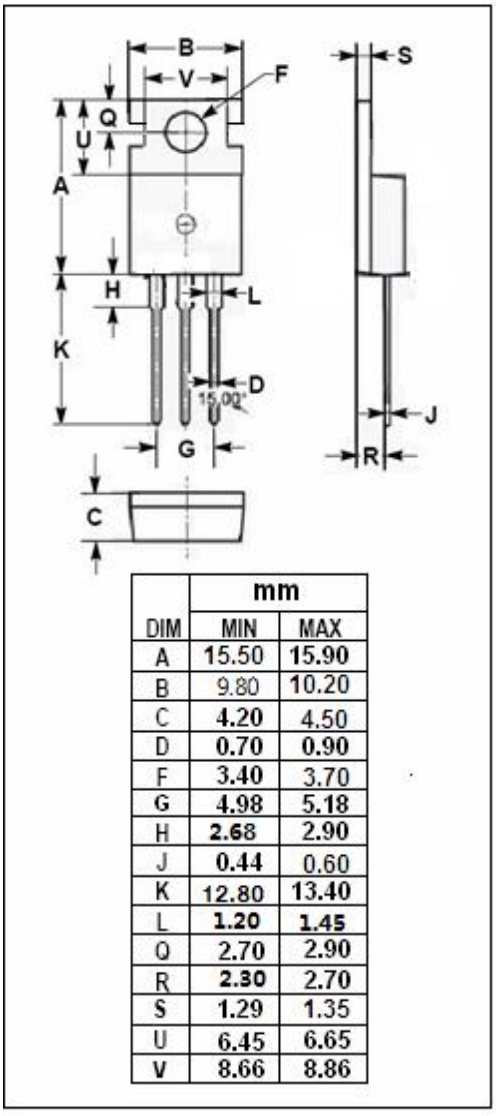


APPLICATIONS

- TV horizontal deflection output applications.
- High voltage switching applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	300	V
V_{CEO}	Collector-Emitter Voltage	150	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	7	A
I_{CM}	Collector Current-Peak	15	A
I_B	Base Current-Continuous	2	A
P_C	Collector Power Dissipation T_a=25℃	1.75	W
	Collector Power Dissipation T_C=25℃	40	
T_j	Junction Temperature	150	℃
T_{stg}	Storage Ttemperature Range	-55~150	℃



DIM	mm MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

isc Silicon NPN Power Transistor 2SD1069

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CEO(SUS)}$	Collector-Emitter Sustaining Voltage	I_C= 50mA; L= 50mH	150			V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	I_C= 1mA; I_E= 0	300			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I_E= 0.1A; I_C= 0	6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= 5A; I_B= 0.5A			1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= 5A; I_B= 0.5A			1.5	V
I_{CES}	Collector Cutoff Current	V_{CE}= 250V; V_{BE}= 0			1	mA
h_{FE}	DC Current Gain	I_C= 5A ; V_{CE}= 1.5V	10			
f_T	Current-Gain—Bandwidth Product	I_C= 0.2A; V_{CE}= 10V		18		MHz
V_{ECF}	C-E Diode Forward Voltage	I_F= 6A			1.8	V
t_f	Fall Time	I_{CP}= 5A; $I_{B1(end)}$= 0.5A			1.0	μs

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.