

isc Silicon PNP Power Transistor

2SA1400Z

**DESCRIPTION**

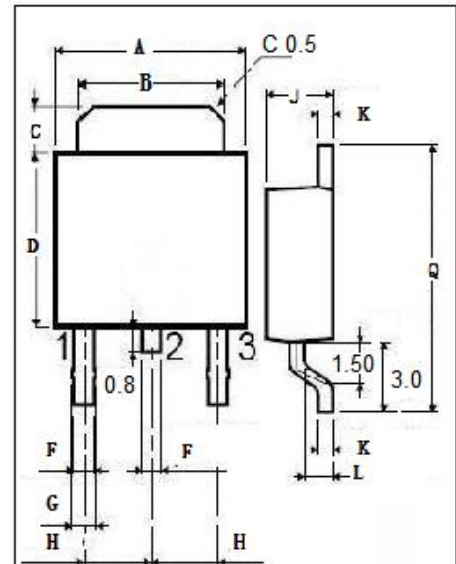
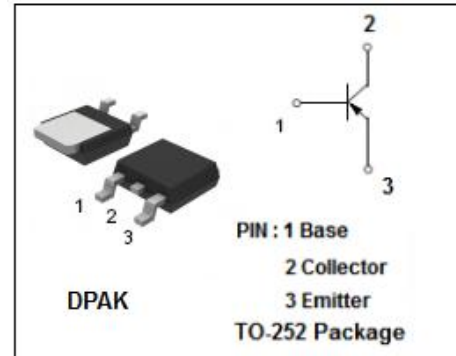
- High Collector-Emitter Voltage -  
:  $V_{CEO} = -400V$ (Min)
- Complement to Type 2SC3588Z
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

**APPLICATIONS**

- Designed for high voltage switching ,especially in Hybrid integrated cricuits.

**ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ C$ )**

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	-400	V
$V_{CEO}$	Collector-Emitter Voltage	-400	V
$V_{EBO}$	Emitter-Base Voltage	-7	V
$I_C$	Collector Current-Continuous	-0.5	A
$P_C$	Collector Power Dissipation @ $T_C=25^\circ C$	2.0	W
$T_J$	Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature Range	-55~150	$^\circ C$



DIM	mm	
	MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

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**ELECTRICAL CHARACTERISTICS**

 T<sub>c</sub>=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -0.1mA; I <sub>B</sub> = 0	-400			V
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -1mA; I <sub>B</sub> = 0	--400			V
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -0.1mA; I <sub>C</sub> = 0	-7			V
I <sub>CBO</sub>	Collector Cutoff Current	V <sub>CB</sub> = -400V; I <sub>E</sub> = 0			-100	μ A
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = -5V; I <sub>C</sub> = 0			-10	μ A
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -100mA; I <sub>B</sub> = -10mA			-1.0	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = -100mA; I <sub>B</sub> = -10mA			-1.2	V
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = -50mA; V <sub>CE</sub> = -5V	30		200	

**◆ h<sub>FE</sub> Classifications**

N	M	L	K
30-60	40-80	60-120	100-200

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