

# isc Silicon NPN Power Transistor

## 2SC2761

### DESCRIPTION

- Excellent Safe Operating Area
- High voltage,high speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

### APPLICATIONS

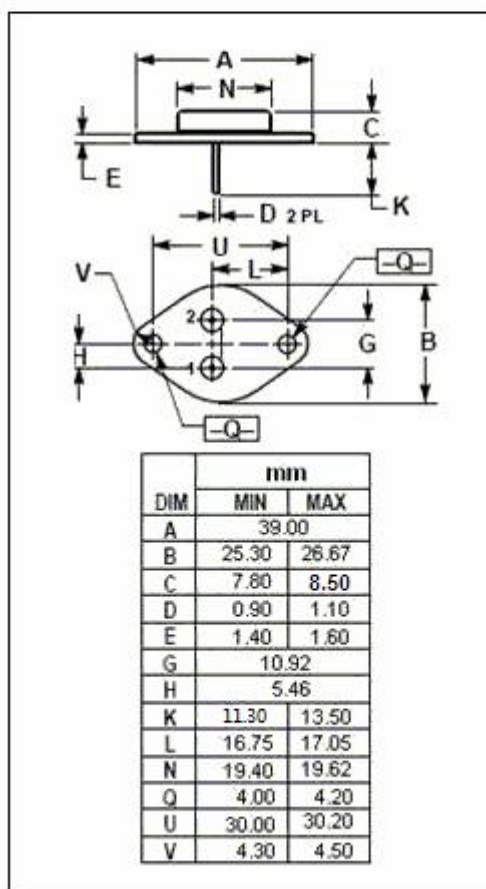
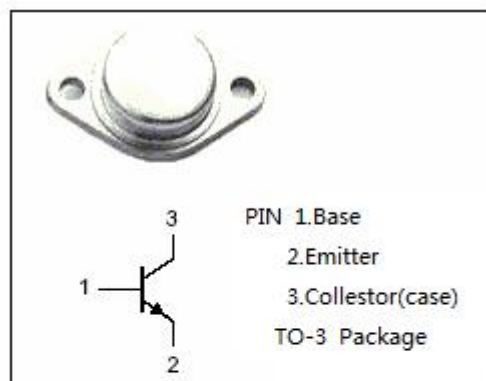
- Converters
- Inverters
- Switching regulators
- Motor controls

### ABSOLUTE MAXIMUM RATINGS( $T_a=25^{\circ}\text{C}$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{CBO}$	Collector-Base Voltage	450	V
$V_{CER}$	Collector-Emitter Voltage	450	V
$V_{CEO}$	Collector-Emitter Voltage	400	V
$V_{EBO}$	Emitter-Base Voltage	7	V
$I_C$	Collector Current-Continuous	30	A
$I_B$	Base Current	6	A
$P_C$	Collector Power Dissipation@ $T_c=25^{\circ}\text{C}$	200	W
$T_J, T_{stg}$	Operating and Storage Junction Temperature Range	-65~+200	$^{\circ}\text{C}$

### THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	0.875	$^{\circ}\text{C/W}$



**isc Silicon NPN Power Transistors****2SC2761****ELECTRICAL CHARACTERISTICS****T<sub>C</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-Emitter Sustaining Voltage	I <sub>C</sub> =30mA ; I <sub>B</sub> =0	400		V
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> = 20A; I <sub>B</sub> = 4A		1.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> = 20A; I <sub>B</sub> = 4A		1.7	V
I <sub>CEO</sub>	Collector Cutoff Current	V <sub>CE</sub> = 400V; I <sub>B</sub> =0		0.1	mA
I <sub>EBO</sub>	Emitter Cutoff Current	V <sub>EB</sub> = 7.0V; I <sub>C</sub> =0		0.1	mA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> = 15A ; V <sub>CE</sub> = 2V	8		

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