

ISC Silicon NPN Power Transistor

2SC3631-Z

DESCRIPTION

- With TO-252(DPAK) packaging
- Excellent linearity of h_{FE}
- · Low collector-to-emitter saturation voltage
- · Fast switching speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

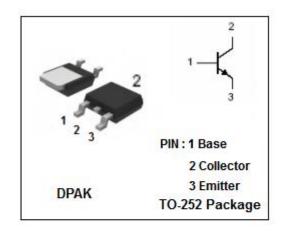


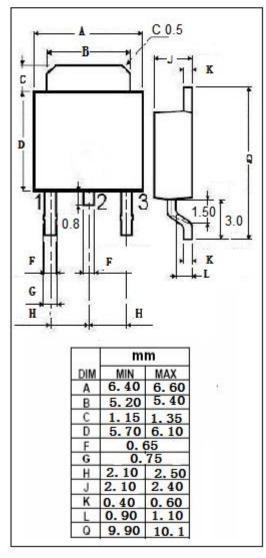
APPLICATIONS

- Relay drivers
- · High-speed inverters
- Converters
- · High current switching applications



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	500	V
Vceo	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	2	А
Pc	Collector Power Dissipation @T _C =25 °C	2	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV _{CBO}	Collector-Base Breakdown Voltage	Ic=1mA; I _B =0	500			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA; I _B =0	400			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1.0A; I _B = 0.2A			1.0	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 1.0A; I _B = 0.2A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μА
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 7V; I _C =0			10	μА
h _{FE-1}	DC Current Cain	I _C = 100mA ; V _{CE} = 5V	40		120	
h _{FE-2}	DC Current Cain	I _C = 1A ; V _{CE} = 5V	6			

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