

isc Silicon NPN Power Transistor

KSD880

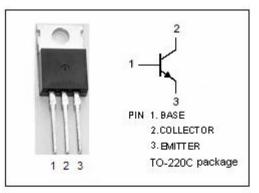
DESCRIPTION

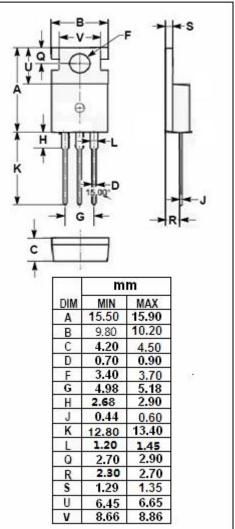
- Collector-Emitter sustaining Voltage : V_{CEO}=60V(Min)
- Good Linearity of h_{FE}
- Complement to KSB834
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

• Linear and switching industrial applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	60	V			
V _{CEO}	Collector-Emitter Voltage	60	V			
V _{EBO}	Emitter-Base Voltage	7	V			
lc	Collector Current-Continuous	3	А			
I _B	Base Current- Continuous	0.3	А			
Pc	Total Power Dissipation @ Tc=25℃	30	W			
TJ	Junction Temperature	150	°C			
T _{stg}	Storage Temperature Range	-55~150	°C			
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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
$V_{\text{CEO}(\text{sus})}$	Collector-Emitter Breakdown Voltage	I _C =50mA ; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1	V
V _{BE} (on)	Base-Emitter OnVoltage	I _C = 0.5A; V _{CE} = 5V			1	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V ; I _E = 0			100	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} =7V; I _C = 0			100	μA
h _{FE-1}	DC Current Gain	I _C =0.5A ; V _{CE} =5V	60		300	
h _{FE-2}	DC Current Gain	I _C =3A ; V _{CE} =5V	20			

h_{FE-1} Classifications

0	Y	G
60-120	100-200	150-300

NOTICE:

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