

isc Silicon NPN Power Transistor
KTC2020D
DESCRIPTION

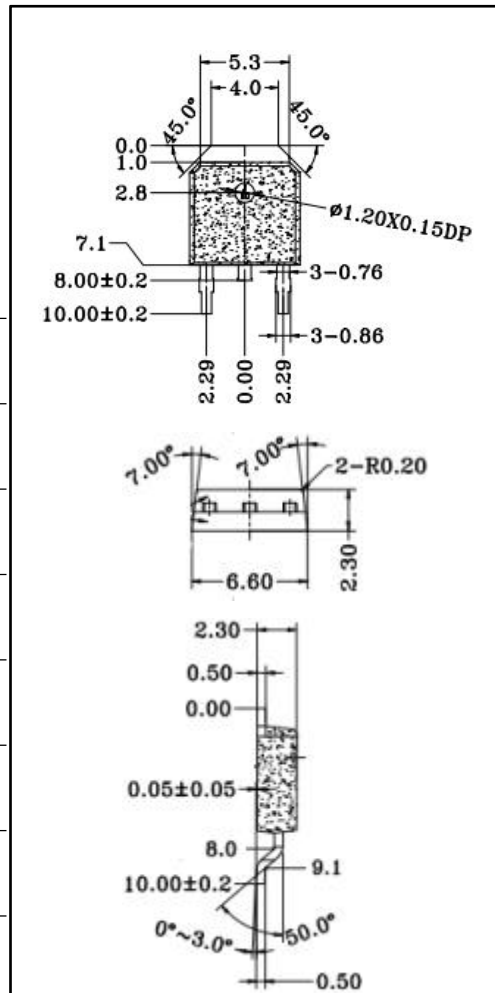
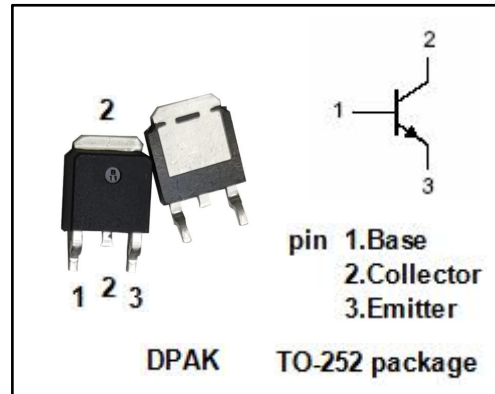
- High Breakdown Voltage-
: $V_{(BR)CBO} = 60V(\text{Min})$
- High Switching Speed
- High Reliability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Ultrahigh-definition CRT display horizontal deflection output applications

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	7.0	V
I_C	Collector Current-Continuous	3.0	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	20	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA; I _B = 0	60		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2.0A; I _B = 0.2A		1.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.5A ; V _{CE} = 5V		1.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 60V ; I _E = 0		100	μ A
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7.0V; I _C = 0		100	μ A
h _{FE}	DC current gain	I _C = 0.5A ; V _{CE} = 5V	100	300	

◆ h_{FE} Classifications

Y	GR
100-200	150-300

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