

isc Silicon PNP Power Transistors
MJD32C
DESCRIPTION

- DC Current Gain $-h_{FE} = 25(\text{Min})@ I_C = -1\text{A}$
- Collector-Emitter Breakdown Voltage:
: $V_{(BR)CEO} = -100\text{V}(\text{Min})$
- Complement to Type MJD31C
- DPAK for Surface Mount Applications
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

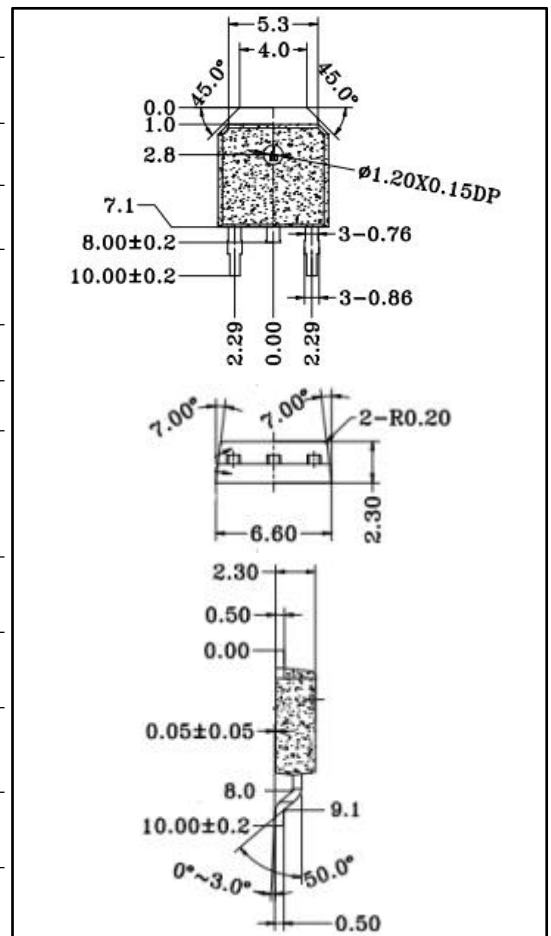
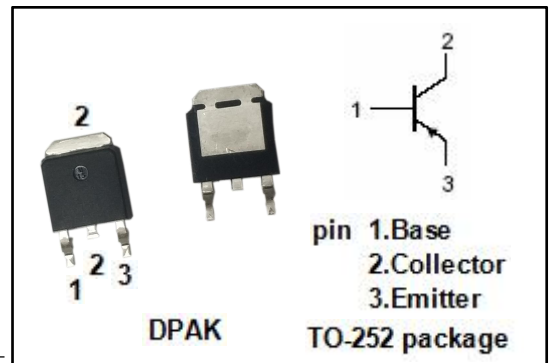
- Designed for use in general purpose amplifier and low speed switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-100	V
V_{CEO}	Collector-Emitter Voltage	-100	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-3	A
I_{CM}	Collector Current-Pulse	-5	A
I_B	Base Current	-1	A
P_C	Collector Power Dissipation $T_C=25^\circ\text{C}$	15	W
	Collector Power Dissipation $T_a=25^\circ\text{C}$	1.56	
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	8.3	$^\circ\text{C/W}$



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ELECTRICAL CHARACTERISTICS
T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-100		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.375A		-1.2	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -4V		-1.8	V
I _{CES}	Collector Cutoff Current	V _{CE} = -100V; V _{EB} = 0		-20	uA
I _{CEO}	Collector Cutoff Current	V _{CE} = -60V; I _B = 0		-50	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-1.0	mA
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -4V	25		
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -4V	10	50	
f _T	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V	3		MHz

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