

isc Silicon NPN Power Transistor
MJE2360T
DESCRIPTION

- Collector–Emitter Sustaining Voltage–
: $V_{CEO(SUS)} = 350\text{ V}(\text{Min})$
- DC Current Gain–
: $h_{FE} = 25(\text{Min}) @ I_C = 50\text{ mA}$
- Low Collector Saturation Voltage–
: $V_{CE(sat)} = 1.5\text{ V}(\text{Max.}) @ I_C = 100\text{ mA}$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

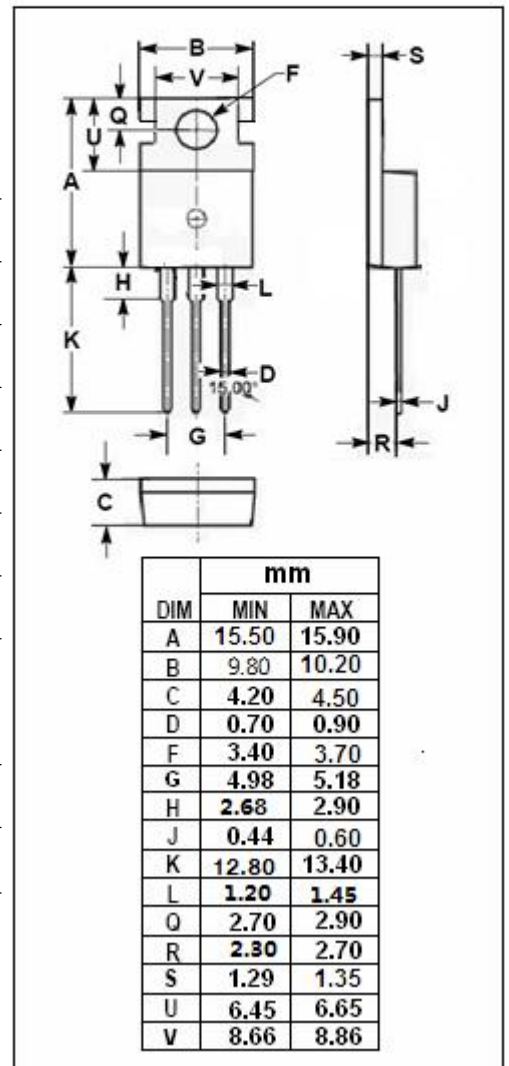
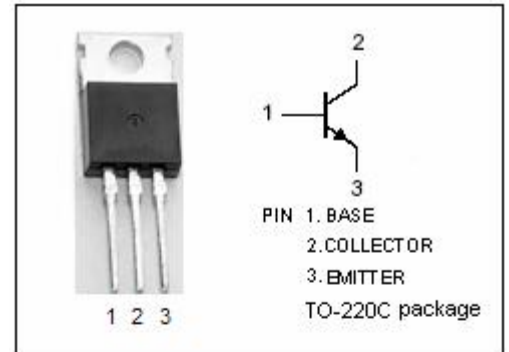
- Designed for low power audio amplifier and low-current, high-speed switching applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CEO}	Collector-Emitter Voltage	350	V
V_{CEV}	Collector-Emitter Voltage	375	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	0.5	A
I_{CM}	Collector Current-Peak	1	A
I_B	Base Current	0.25	A
P_C	Collector Power Dissipation $T_a=25^\circ\text{C}$	0.24	W
	Collector Power Dissipation $T_C=25^\circ\text{C}$	30	
T_J	Junction Temperature	-65~150	$^\circ\text{C}$
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	4.167	$^\circ\text{C}/\text{W}$



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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 = 2.5mA; I _B = 0	350		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 100mA ;I _B =10mA		1.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 100mA; V _{CE} = 10V		1	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 250V; I _B =0		0.25	mA
I _{CEx}	Collector Cutoff Current	V _{CE} = 375V; V _{BE(off)} = 1.5V		0.5	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = 375V; I _E = 0		0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		0.1	mA
h _{FE-1}	DC Current Gain	I _C = 50m A ; V _{CE} = 10V	25	200	
h _{FE-2}	DC Current Gain	I _C = 100mA ; V _{CE} = 10V	15		

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