

isc Silicon PNP Power Transistors
MJE4350/4351/4352/4353
DESCRIPTION

- Collector-Emitter Sustaining Voltage-
: $V_{CEO(SUS)}$ = -100V(Min)- MJE4350
= -120V(Min)- MJE4351
= -140V(Min)- MJE4352
= -160V(Min)- MJE4353
- Low Saturation Voltage
- Complement to the NPN MJE4340/4341/4342/4343

APPLICATIONS

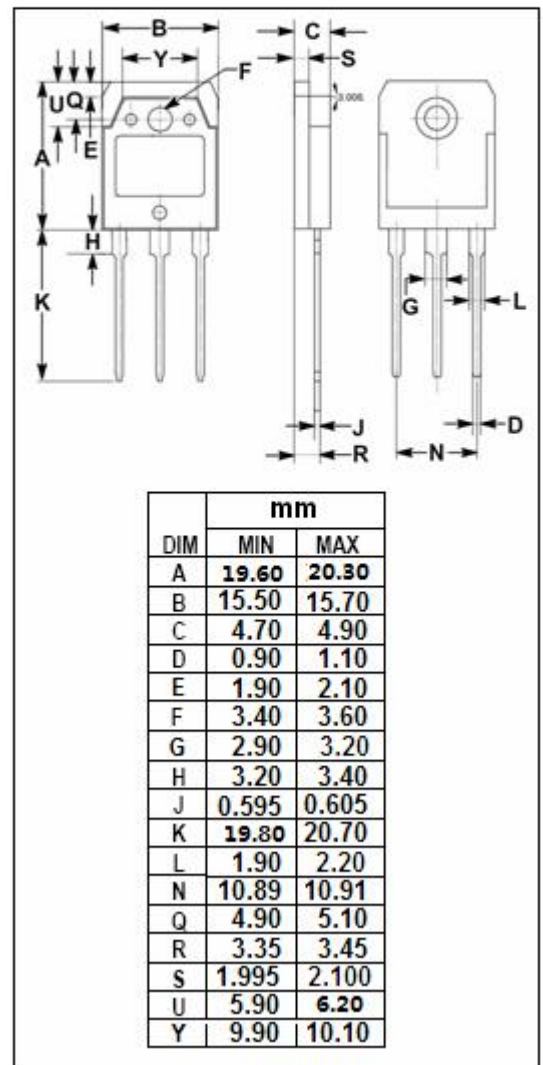
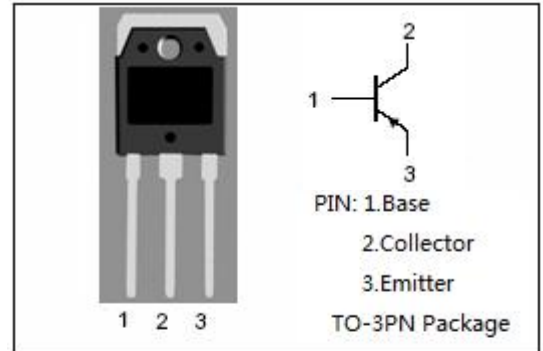
- Designed for use in high power audio amplifier applications and high voltage switching regulator circuits.

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	MJE4350	-100
		MJE4351	-120
		MJE4352	-140
		MJE4353	-160
V_{CEO}	Collector-Emitter Voltage	MJE4350	-100
		MJE4351	-120
		MJE4352	-140
		MJE4353	-160
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-16	A
I_{CM}	Collector Current-Peak	-20	A
I_B	Base Current-Continuous	-5	A
P_C	Collector Power Dissipation @ $T_C=25^{\circ}C$	125	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.0	$^{\circ}C/W$



isc Silicon PNP Power Transistors
MJE4350/4351/4352/4353
ELECTRICAL CHARACTERISTICS

 T_C=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	MAX	UNIT
V _{CE0(SUS)}	Collector-Emitter Sustaining Voltage	MJE4350	I _C = -50mA ; I _B = 0	-100		V
		MJE4351		-120		
		MJE4352		-140		
		MJE4353		-160		
V _{CE(sat)-1}	Collector-Emitter Voltage	Saturation	I _C = -8A; I _B = -0.8A		-2.0	V
V _{CE(sat)-2}	Collector-Emitter Voltage	Saturation	I _C = -16A; I _B = -2A		-3.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage		I _C = -16A; I _B = -2A		-3.9	V
V _{BE(on)}	Base-Emitter On Voltage		I _C = -16A; V _{CE} = -4V		-3.9	V
I _{CEO}	Collector Cutoff Current	MJE4350	V _{CE} = -100V; I _B = 0		-0.75	mA
		MJE4351	V _{CE} = -120V; I _B = 0		-0.75	
		MJE4352	V _{CE} = -140V; I _B = 0		-0.75	
		MJE4353	V _{CE} = -160V; I _B = 0		-0.75	
I _{CBO}	Collector Cutoff Current		V _{CB} = Rated V _{CB} ; I _E =0		-0.75	mA
I _{EBO}	Emitter Cutoff Current		V _{EB} = -7V; I _C =0		-1.0	mA
h _{FE-1}	DC Current Gain		I _C = -8A; V _{CE} = -2V	15		
h _{FE-2}	DC Current Gain		I _C = -16A; V _{CE} = -4V	8		

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.