

isc Silicon NPN Power Transistor

3DA608

DESCRIPTION

- High DC Current Gain-
: h_{FE} : 20-180@ $I_C = 7.5A$
- Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

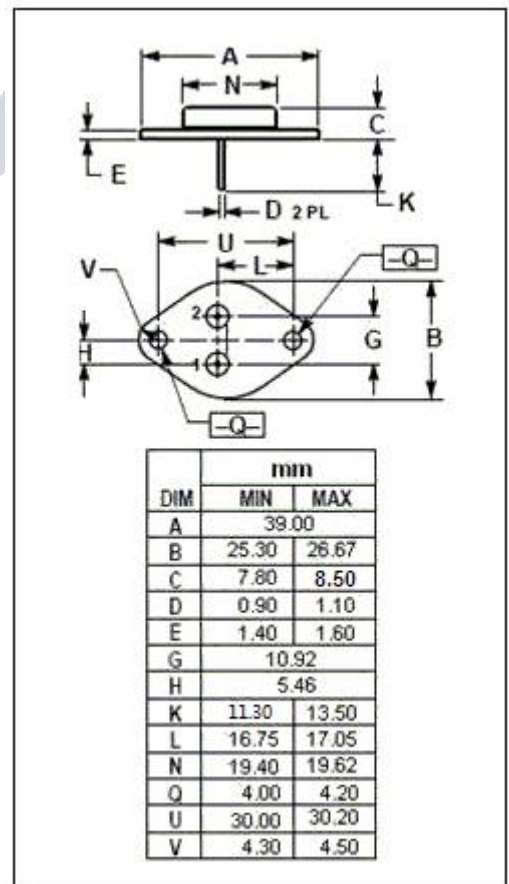
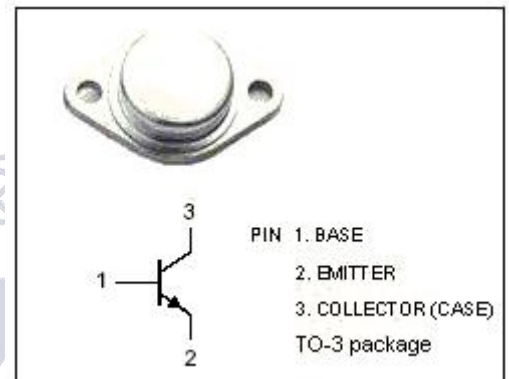
- Designed for use as an output device in complementary audio amplifiers

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	3DA608A	40
		3DA608B	60
		3DA608C	90
		3DA608D	110
		3DA608E	160
		3DA608F	230
V_{CEO}	Collector-Emitter Voltage	3DA608A	30
		3DA608B	50
		3DA608C	80
		3DA608D	100
		3DA608E	150
		3DA608F	200
V_{EBO}	Emitter-Base Voltage	4	V
I_{CM}	Pulsed Collector Current	10	A
P_C	Collector Power Dissipation@ $T_c = 25^\circ C$	100	W
T_J	Junction Temperature	175	$^\circ C$
T_{stg}	Storage Temperature Range	-55-175	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.5	$^\circ C/W$



isc Silicon NPN Power Transistor**3DA608****ELECTRICAL CHARACTERISTICS****T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CEO(BR)}	Collector-Emitter Breakdown Voltage	I _C =10mA; I _B =0	3DA608A	30		V
			3DA608B	50		
			3DA608C	80		
			3DA608D	100		
			3DA608E	150		
			3DA608F	200		
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =5A; I _B =0.5A	3DA608A		1	V
			3DA608B		0.5	
			3DA608C		0.5	
			3DA608D		0.5	
			3DA608E		0.5	
			3DA608F		0.5	
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C =5A; I _B =0.5A	3DA608A		2	V
			3DA608B		1.4	
			3DA608C		1.4	
			3DA608D		1.4	
			3DA608E		1.4	
			3DA608F		1.4	
I _{CBO}	Collector-Base Cutoff Current	V _{CB} =20V; I _E =0			2	mA
I _{CEO}	Collector-Collector Cutoff Current	V _{CE} =20V; I _E =0			3	mA
I _{EBO}	Emitter Cutoff current	V _{EB} =3V; I _C =0			3	mA
h _{FE}	DC Current Gain	I _C =7.5A ; V _{CE} =3V	20		180	

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