

isc Silicon NPN Power Transistor

3DA77

DESCRIPTION

- · High DC Current Gain : h_{FE}= 10(MAX)@I_C= 1.5A
- · Excellent Safe Operating Area
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS



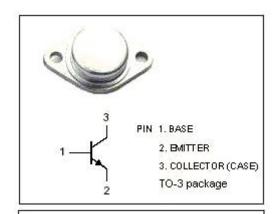
• Designed for use as an output device in complementary audio amplifiers

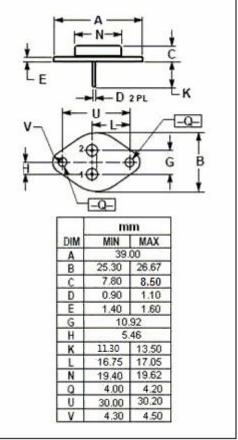
ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CEO}	Collector-Emitter Voltage	70	V
V _{EBO}	Emitter-Base Voltage	1	V
Ic	Collector Current-Continuous	5.0	А
Pc	Collector Power Dissipation@T _C =75℃	40	W
TJ	Junction Temperature 175		$^{\circ}$
T _{stg}	Storage Temperature Range	-55-175	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.25	°C/W





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ELECTRICAL CHARACTERISTICS

 T_c =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(BR)}	Collector-Emitter Breakdown Voltage	I _C =20mA; I _B =0	70		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C =5A; I _B =1A		3	V
Ісво	Collector Cutoff Current	V _{CB} =24V; I _E =0		3	mA
I _{CEO}	Emitter Cutoff current	V _{CE} =20V; I _C =0		1	mA
h _{FE}	DC Current Gain	I _C =1.5A; V _{CE} =5V	10		

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