

isc Silicon NPN Power Transistors

2SD428

DESCRIPTION

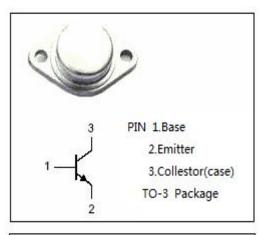
- Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V(Min)
- High Power Dissipation-
- : P_C= 60W(Max)@T_C=25℃
- Complement to Type 2SB558
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

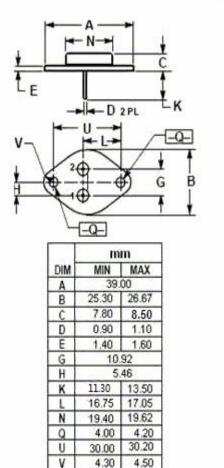
APPLICATIONS

- Designed for power amplifier applications.
- Recommended for 40W high-fidelity audio frequency amplifier output stage.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
Vceo	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage 5		
lc	Collector Current-Continuous	current-Continuous 7	
l _E	Emitter Current-Continuous	7	А
Pc	Collector Power Dissipation @Tc=25℃	60	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C







isc Silicon NPN Power Transistors

2SD428

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 5A; V _{CE} = 5V			2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 50V; 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 = 1A; V _{CE} = 5V	40		140	
h _{FE-2}	DC Current Gain	I _C = 5A; V _{CE} = 5V	15			
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f= 1MHz		140		pF
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		7		MHz

h_{FE-1} Classifications

R	0
40-80	70-140

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.