

isc Silicon PNP Power Transistors

DESCRIPTION

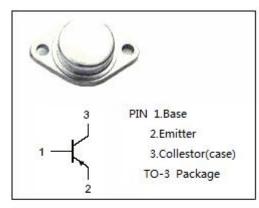
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -140V(Min)
- · High Power Dissipation-
 - : P_C= 80W(Max)@T_C=25°C
- Complement to Type 2SD425
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

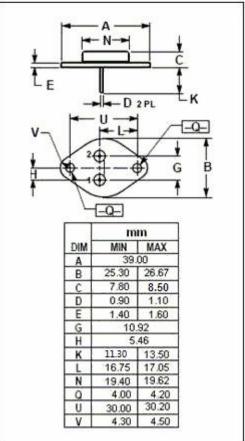
APPLICATIONS

- Designed for power amplifier applications.
- Recommended for 80W high-fidelity audio frequency amplifier output stage.

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	-140		
V _{CEO}	Collector-Emitter Voltage -140		V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current-Continuous -12		Α	
Pc	Collector Power Dissipation @Tc=25°C 80		W	
TJ	Junction Temperature	150	$^{\circ}\mathbb{C}$	
T _{stg}	Storage Temperature	-65~150	$^{\circ}$ C	







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2SB555

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -30mA; I _B = 0	-140			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -10mA; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -7A; I _B = -0.7A			-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	Ic= -7A; VcE= -5V			-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -60V; I _E = 0			-0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	mA
h _{FE}	DC Current Gain	I _C = -2A; V _{CE} = -5V	40		140	
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		330		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -2A; V _{CE} = -5V		6		MHz

♦ h_{FE} Classifications

R	0
40-80	70-140

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