

isc Silicon PNP Power Transistors

DESCRIPTION

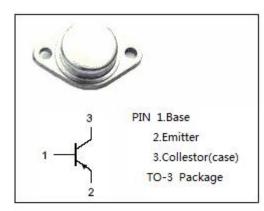
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= -120V(Min)
- · High Power Dissipation-
 - : P_C= 100W(Max)@T_C=25℃
- Complement to Type 2SD287
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

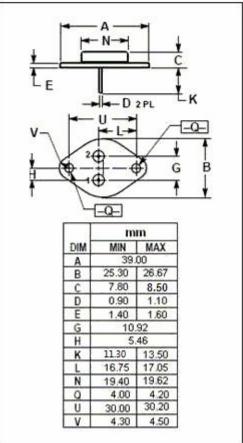


- Designed for audio frequency power amplifier applications.
- Recommended for 70~80W high-fidelity audio frequency amplifier output stage.



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-130	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current-Continuous	-10	Α
Ісм	Collector Current-Pulse	-15	Α
Pc	Collector Power Dissipation @T _C =25°C	100	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$







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2SB539

ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -6A; I _B = -0.6A			-2.0	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -6A; I _B = -0.6A			-2.0	V	
I _{CBO}	Collector Cutoff Current	V _{CB} = -120V; I _E = 0			-0.1	mA	
ІЕВО	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-0.1	mA	
h _{FE-1}	DC Current Gain	I _C = -2A; V _{CE} = -5V	40		200		
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -5V	25				
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f= 1MHz		420		pF	
f _T	Current-Gain—Bandwidth Product	I _C = -0.2A; V _{CE} = -10V		7		MHz	

♦ h_{FE-1} Classifications

S	R	Q
40-80	60-120	100-200

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