

isc Silicon NPN Power Transistor

2SD237

DESCRIPTION

- Excellent Safe Operating Area
- · Low Collector-Emitter Saturation Voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

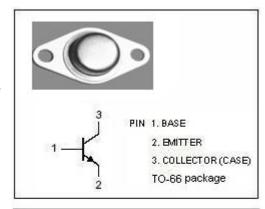


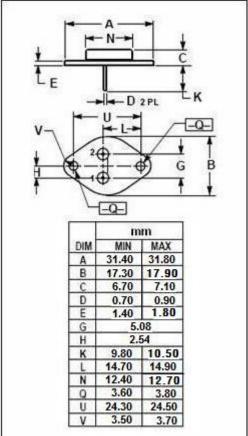
APPLICATIONS

Designed for general-purpose power amplifier and switching applications



SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	80	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	8	V
Ic	Collector Current-Continuous	1.5	А
I _{CM}	Collector Current-Peak 2		А
P _C	Collector Power Dissipation@T _C =25℃	Γ _C =25℃ 15	
TJ	Junction Temperature	re 150	
T _{stg}	Storage Temperature -65~150		$^{\circ}$







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ELECTRICAL CHARACTERISTICS

 T_{c} =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
Vceo(sus)*	Collector-Emitter Sustaining Voltage	I _C =30mA; I _B = 0	80		V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	8		V
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0		0.1	mA
Ісво	Collector Base Cutoff Current	V _{CB} =80V; I _E = 0		0.1	mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.1A		0.7	V
V _{BE(ON)}	Base-Emitter On Voltage	I _C =1A;V _{CE} = 4V		1.4	V
h _{FE-1} *	DC Current Gain	I _C = 0.5A; V _{CE} = 4V	60	200	
h _{FE-2} *	DC Current Gain	I _C = 1A; V _{CE} = 4V	20		

^{*:}Pulse test:Pulse width=300us,duty cycle≤2%

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