

isc Silicon NPN Power Transistor

2SD73

DESCRIPTION

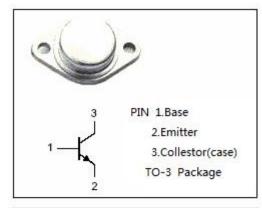
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 100V(Min)
- Good Linearity of h_{FE}
- · Wide Area of Safe Operation
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

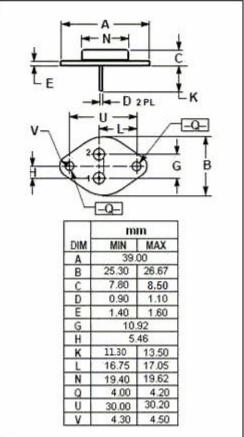
APPLICATIONS

 Designed for use in general purpose power amplifier and switching applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	5	А
I _{CM}	Collector Current-Peak	8	Α
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	60	W
TJ	Junction Temperature	rature 175	
T _{stg}	Storage Temperature Range -65~175		$^{\circ}$ C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _(BR) CEO	Collector-Emitter Breakdown Voltage	I _C = 30mA; I _B = 0	100			V
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA; I _E = 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			2.0	V
V _{BE(on)}	Base -Emitter On Voltage	I _C = 1A; V _{CE} = 5V			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 100V; I _E = 0			100	uA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			100	uA
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	60		200	
h _{FE-2}	DC Current Gain	Ic= 4A; Vc== 5V	20			
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 5V		20		MHz

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