

isc Silicon NPN Power Transistors

2SD583

DESCRIPTION

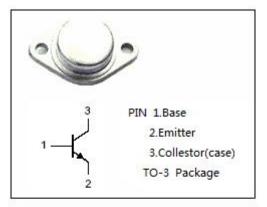
- High Current Capability
- Excellent Safe Operating Area
- High DC current Gain
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

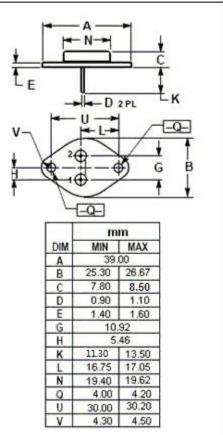
APPLICATIONS

• Designed for high power audio, disk head positioners and other linear applications

ABSOLUTE MAXIMUM RATINGS(Tc=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	250	V
V _{CEO}	Collector-Emitter Voltage	250	V
V_{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	15	А
Ісм	Collector Current-Peak	25	А
IB	Base Current-Continuous	5	А
PD	Total Power Dissipation @Tc=25°C	150	W
Tj	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-65~150	°C







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ELECTRICAL CHARACTERISTICS

Tj=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = 50mA ;I _B = 0	250		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = 8A; I _B = 0.8A		1.4	V
V _{CE} (sat)-2	Collector-Emitter Saturation Voltage	I _C = 15Α; I _B = 3Α		4.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 8A ; V _{CE} = 4V		2.2	V
Iceo	Collector Cutoff Current	V _{CE} = 250V; I _B = 0		0.5	mA
Ісво	Collector Cutoff Current	V _{CB} = 250V; 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	Ic= 2A ; V _{CE} = 5V	60	200	
h _{FE-2}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	30		
f⊤	Current-Gain—Bandwidth Product	I _C = 1A ; V _{CE} = 10V; f _{test} = 1.0MHz	4		MHz

NOTICE:

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