

isc Silicon NPN Power Transistor

2SC1403

DESCRIPTION

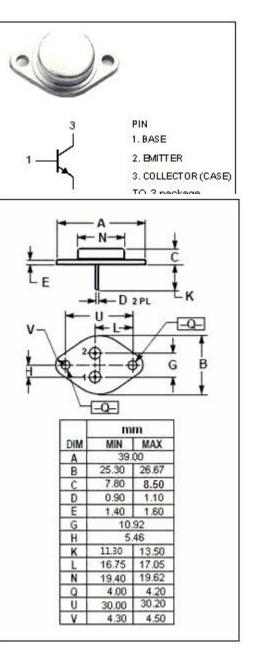
- Wide area of safe operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

For audio frequency power amplifier applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	160	v				
Vceo	Collector-Emitter Voltage	100	V				
V _{EBO}	Emitter-Base Voltage	5	V				
lc	Collector Current-Continuous	8	A				
Pc	Collector Power Dissipation @ Tc=25°C	70	W				
TJ	Junction Temperature	150	Ĉ				
T _{stg}	Storage Temperature Range	-50~150	°C				

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector- Emitter Breakdown Voltage	I _C = 50mA ; I _E = 0	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Vltage	I _E = 1mA ; I _C = 0	5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.5A			2	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	Ic= 5A ; I _B = 0.5A			2.5	V
Ісво	Collector cut-off current	Vсв=160V; IE=0			0.1	mA
Іево	Emitter cut-off current	VEB=5V; Ic=0			0.1	mA
hfe	DC current gain	Ic=3A ; Vce=4V	30			
f⊤	Transition frequency	Ic=0.5A ; Vc=10V		10		MHz

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