

isc Silicon NPN Power Transistor

2SC1051

DESCRIPTION

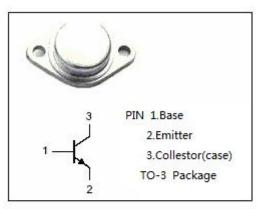
- With TO-3 Package
- High breakdown voltage
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

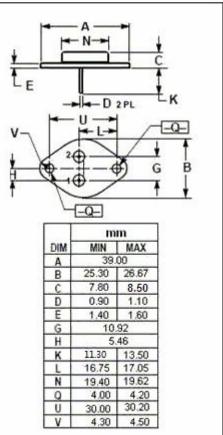
APPLICATIONS

• For low frequency power amplifier and large power switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
SYMBOL	PARAMETER	VALUE	JE UNIT		
Vсво	Collector-Base Voltage	150	V		
V _{CEO}	Collector-Emitter Voltage	100	V		
V _{EBO}	Emitter-Base Voltage	5	V		
Ic	Collector Current-Continuous	7	А		
Pc	Collector Power Dissipation	60	W		
TJ	Junction Temperature	150	Ĉ		
T _{stg}	Storage Temperature Range	-55~150	°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 _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 500mA			2.0	V
VBE(ON)	Base-Emitter ON Voltage	I _C = 1.0A; V _{CE} = 5V			1.5	V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; I _B = 0	100			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	5			V
h _{FE}	DC Current Gain	I _C = 1.0A; V _{CE} = 5V	40		320	
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A ; V _{CE} = 5V		8		MHz

h_{FE} Classifications

с	D	E	F
40-80	60-120	100-200	160-320

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