

ISC Silicon NPN RF Power Transistor

2SC1969

DESCRIPTION

- · With TO-220 packaging
- · Reliable performance at higher powers
- · Accurate reproduction of Input signal
- · Greater dynamic range
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Switching regulators
- · High frequency inverters
- · General purpose power amplifiers

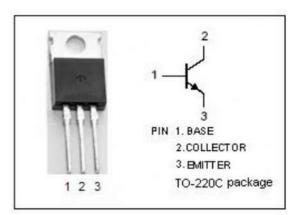


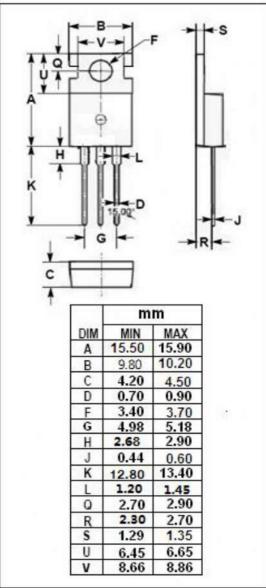
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage R _{BE} = ∞	ctor-Emitter Voltage R _{BE} = ∞ 25		
V _{EBO}	Emitter-Base Voltage	-Base Voltage 5		
lc	Collector Current	ector Current 6		
Pc	Collector Power Dissipation	ipation 20		
Tj	Junction Temperature 150		$^{\circ}$ C	
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-a	Rth j-a Thermal Resistance, Junction to Ambient		°C/W
R _{th j-c}	Thermal Resistance, Junction to Case	6.25	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 1mA, I _E = 0	60			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA; R _{BE} = ∞	25			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 5mA, I _C = 0	5			V
Ісво	Collector Cutoff Current	V _{CB} = 30V; I _E = 0			0.1	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 4V; I _C = 0			0.1	mA
h _{FE}	DC Current Gain	Ic= 10mA; VcE= 12V	10		180	

h_{FE} Classifications

Х	A	В	С	D
10-25	20-45	35-70	55-110	90-180

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