

isc Silicon NPN RF Transistor

BFR182TW

DESCRIPTION

- · Low Voltage Use
- · Ultra Super Mini Mold Package
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

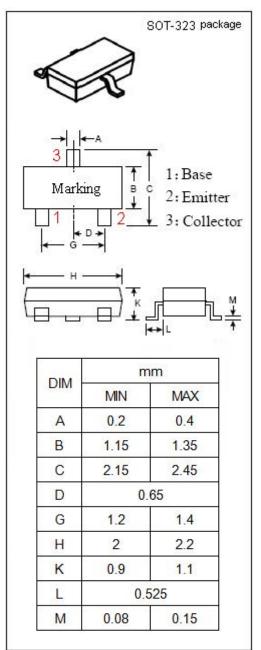


APPLICATIONS

 Designed for use in low noise and small signal amplifiers from VHF band to UHF band

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	15	V
V _{CEO}	Collector-Emitter Voltage	10	V
V _{EBO}	Emitter-Base Voltage	2	V
lc	Collector Current-Continuous	35	mA
Pc	Collector Power Dissipation @T _C =25°C	200	mW
TJ	Max.Junction Temperature	150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-65~150	$^{\circ}$ C





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ELECTRICAL CHARACTERISTICS

 T_c =25℃ unless otherwise specified, Pulse Measurement PW ≤ 350 μs, Duty Cycle ≤ 2 %

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
Ісво	Collector Cutoff Current	V _{CB} = 10V; I _E = 0			0.1	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 1V; I _C = 0			1	μА
h _{FE}	DC Current Gain	I _C =5mA ; V _{CE} = 6V	50			
f⊤	Current-Gain—Bandwidth Product	I _C =5mA ; V _{CE} = 3V ; f= 2GHz		8	8.5	GHz
Cre	Feed-Back Capacitance	I _E = 0 ; V _{CB} =10V;f= 1.0MHz		0.65	1	pF
S _{21e} ²	Insertion Power Gain	I _C = 5mA ; V _{CE} = 3V;f= 2.0GHz		5.5		dB
NF	Noise Figure	I _C = 5mA ; V _{CE} = 3V;f= 2.0GHz		2.0		dB



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