



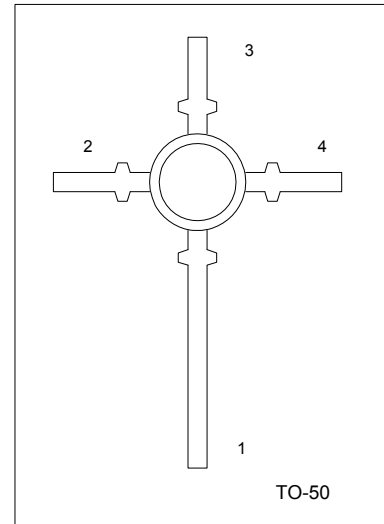
2SC3358

NPN SILICON EPITAXIAL TRANSISTOR

HIGH FREQUENCY LOW NOISE AMPLIFIER

FEATURES

- *Low Noise and High Gain
- *High Power Gain



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment				Packing
Lead Free	Halogen Free		1	2	3	4	
2SC3358L-T50-R	2SC3358G-T50-R	TO-50	C	E	B	E	Tape Reel

Note: Pin Assignment: C: Collector E: Emitter B: Base

<p>2SC3358G-T50-R</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p>	<p>(1) R: Tape Reel</p> <p>(2) T50: TO-50</p> <p>(3) G: Halogen Free and Lead Free, L: Lead Free</p>
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■ ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$, unless otherwise stated)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	20	V
Collector-Emitter Voltage	V_{CEO}	12	V
Emitter-Base Voltage	V_{EBO}	3	V
Collector Current	I_C	100	A
Total Device Dissipation	P_D	250	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65 ~ +150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I_{CBO}	$V_{CB}=10\text{V}, I_E=0$			1.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=1\text{V}, I_C=0$			1.0	μA
DC Current Gain (Note)	h_{FE}	$V_{CE}=10\text{V}, I_C=20\text{mA}$	50		300	
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_C=20\text{mA}$		7		GHz
Feed-Back Capacitance	C_{re}	$V_{CB}=10\text{V}, I_E=0, f=1.0\text{MHz}$			1.0	pF
Noise figure	NF	$V_{CE}=10\text{V}, I_C=7\text{mA}, f=1.0\text{GHz}$			2.0	dB

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