



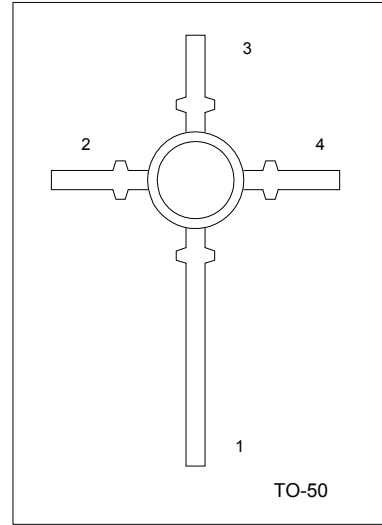
**2SC3358**

**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> <ul style="list-style-type: none"> <li>(1) Packing Type</li> <li>(2) Package Type</li> <li>(3) Green Package</li> </ul>	<ul style="list-style-type: none"> <li>(1) R: Tape Reel</li> <li>(2) T50: TO-50</li> <li>(3) G: Halogen Free and Lead Free, L: Lead Free</li> </ul>
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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	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=1\text{V}, I_C=0$			1.0	$\mu\text{A}$
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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