

UTC UNISONIC TECHNOLOGIES CO., LTD

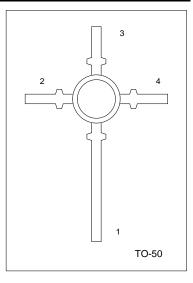
2SC3358

NPN SILICON EPITAXIAL TRANSISTOR

HIGH FREQUENCY LOW NOISE AMPLIFIER

FEATURES

*Low Noise and High Gain *High Power Gain



ORDERING INFORMATION

Ordering Number		Deelvere	Pin Assignment				De alvia a	
Lead Free	Halogen Free	Package	1	2	3	4	Packing	
2SC3358L-T50-R	2SC3358G-T50-R	TO-50	С	ш	В	ш	Tape Reel	
Note: Pin Assignment: C: Collector E: Emitter B: Base								
2SC3358G- <u>T50-R</u>	 (1) R: Tape Reel (2) T50: TO-50 (3) G: Halogen Free and Lead Free, L: Lead Free 							

■ ABSOLUTE MAXIMUM RATINGS (T_c = 25°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	Ιc	100	mA
Total Device Dissipation	PD	250	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-65 ~ +150	°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} =10V, I _E =0			1.0	μA
Emitter Cut-Off Current	I _{EBO}	$V_{EB}=1V$, $I_{C}=0$			1.0	μA
DC Current Gain (Note)	h _{FE}	V _{CE} =10V, I _C =20mA	50		300	
Transition Frequency	f⊤	V _{CE} =10V, I _C =20mA		7		GHz
Feed-Back Capacitance	Cre	V _{CB} =10V, I _E =0, f=1.0MHz			1.0	рF
Noise figure	NF	V _{CE} =10V, I _C =7mA, f=1.0GHz			2.0	dB



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