

MICRO

2SC1675
NPN
SILICON
TRANSISTOR

2SC1675 is designed for use in AM converter, AM/FM IF amplifier and local oscillator of AM/FM tuner.

TO-92B



ECB

ABSOLUTE MAXIMUM RATINGS

Collector-Base Voltage	VCBO	50V
Collector-Emitter Voltage	VCEO	30V
Emitter-Base Voltage	VEBO	5V
Collector Current	IC	30mA
Total Power Dissipation	Ptot	250mW
Operating Junction & Storage Temperature	Tj, Tstg	-55 to +150°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN	MAX	UNIT	TEST CONDITIONS
Collector Cutoff Current	ICBO		100	nA	VCB=50V IE=0
Emitter Cutoff Current	IEBO		100	nA	VEB=5V IC=0
D.C. Current Gain	HFE	40	180		IC=1mA VCE=6V
		40	80		Group M
		60	120		Group L
		90	180		Group K
Collector-Emitter Saturation Voltage	VCE(sat)		0.3	V	IC=10mA IB=1mA
Base-Emitter Voltage	VBE		0.75	V	IC=1mA VCE=6V
Current Gain Bandwidth Product	fT	150		MHz	IC=1mA VCE=6V
Output Capacitance	Cob		2.2	pF	VCB=6V f=1MHz
Noise Figure	NF		4	dB	IC=1mA VCE=6V f=1MHz RG=500Ω
Collector to Base Time Constant	Ccrbb'		15	pS	IE=10mA VCE=6V f=31.9MHz



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