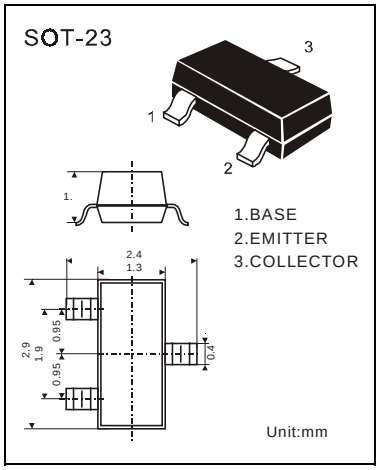
WEJ®

T9018(9018)

NPN EPITAXIAL SILICON TRANSISTOR

AM/FM IF AMPLIFIER,LOCAL OSCILIATOR OF FM/VHF TUNER

* High Current Gain Bandwidth Product f_T=1100MHz



ABSOLUTE MAXIMUM RATINGS at Ta=25℃

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	Vcbo	30	V
Collector-Emitter Voltage	Vceo	15	V
Emitter-Base Voltage	Vebo	5	V
Collector Current	Ic	50	mA
Collector Dissipation Ta=25℃*	P_D	225	mW
Junction Temperature	Tj	150	℃
Storage Temperature	Tstg	-55-150	℃

ELECTRICAL CHARACTERISTICS at Ta=25℃

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BVcbo	30			V	Ic=100uA Ie=0
Collector-Emitter Breakdown Voltage#	BVceo	15			V	Ic= 1mA Ib=0
Emitter-Base Breakdown Voltage	BVebo	5			V	Ie= 100uA Ic=0
Collector-Base Cutoff Current	Icbo			50	nA	Vcb= 12V Ie=0
DC Current Gain	Hfe	28	100	300		Vce= 5V Ic= 1mA
Collector-Emitter Saturation Voltage	Vce(sat)			0.5	V	Ic= 10mA Ib= 1mA
Collector-Base Capacitance	Cob		1.3	1.7	PF	Vcb=10V Ie=0 f=1MHZ
Current Gain-Bandwidth Product	f_T	700	1100		MHz	Vce= 5V Ic= 5mA

* Total Device Dissipation : FR=1x0.75x0.062in Board,Derate 25℃.

\# Pulse Test : Pulse Width ≤300uS,Duty cycle ≤2%

DEVICE MARKING:

T9018F=J8