

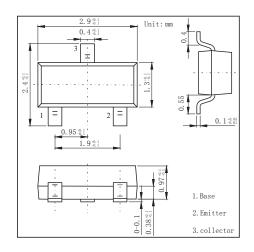
SOT-23 Plastic-Encapsulate Transistors

FEATURES

- Collector Current Capability IC=200mA
- Collector Emitter Voltage VCEO=15V
- TRANSNPN Transistors

MECHANICAL DATA

- Case style:SOT-23molded plastic
- Mounting position:any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	40		
Collector - Emitter Voltage	Vceo	15	V	
Emitter - Base Voltage	VEBO	5		
	lc	200	mA	
Base Current	Ів	40		
Collector Power Dissipation	Pc	150	mW	
Junction Temperature	TJ	125	C	
Storage Temperature Range	Tstg	-55 to 125		

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector- base breakdown voltage	Vсво	Ic= 100 μA, IE= 0	40			
Collector- emitter breakdown voltage	VCEO	Ic= 1 mA, IB= 0 IE= 100 μ A, Ic= 0				V
Emitter - base breakdown voltage	VEBO					
Collector-base cut-off current	Ісво	Vcb= 40V , IE= 0			0.1	uA
Emitter cut-off current	ІЕВО	VEB= 5V , IC=0			0.1	
Collector-emitter saturation voltage	VCE(sat)	Ic=20 mA, IB=1mA			0.3	V
Base - emitter saturation voltage	VBE(sat)	Ic=20 mA, Iв=1mA			1	
DC current gain	hFE	VcE= 1V, Ic= 10mA	40		240	
		VcE= 1V, Ic= 100mA				
Turn-on time	ton	INPUT $\stackrel{4.2k\Omega}{\sim}$ OUTPUT		70		
Storage time	tstg	INPUT O WORK OF THE PROPERTY O		15		ns
Fall time	tf	$1\mu s$ V_{BB} V_{CC} $= -3V$ $= 12V$ DUTY CYCLE $\leq 2\%$		30		
Collector output capacitance	Cob	VcB= 10V,IE=0,f=1MHz			6	pF
Transition frequency	fτ	VcE= 10V, Ic=10mA				MHz

1.4

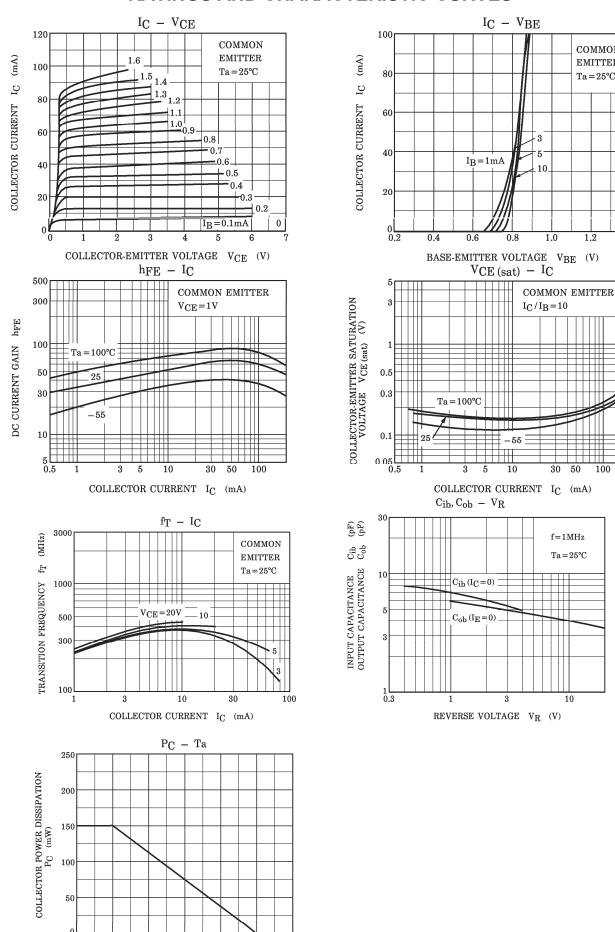
COMMON

EMITTER

Ta = 25°C



RATINGS AND CHARACTERISTIC CURVES



AMBIENT TEMPERATURE Ta (°C)