

SOT-23 Plastic-Encapsulate Transistors(NPN)

RHOS

Transistors SOT-23



1. BASE

2. EMITTER

3. COLLECTOR

Maximum Ratings

(Ratings at 25°C ambient temperature unless otherwise specified.)

Marking: 2X

Features

Power Dissipation of 300mWHigh Stability and High Reliability

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	60	V
Collector-Emitter Voltage	VCEO	40	V
Emitter -Base Voltage	Vebo	6	V
Collector Current-Continuous	lc	600	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55-+150	°C
Thermal resistance From junction to ambient	Reja	417	°C/W

Electrical Characteristics

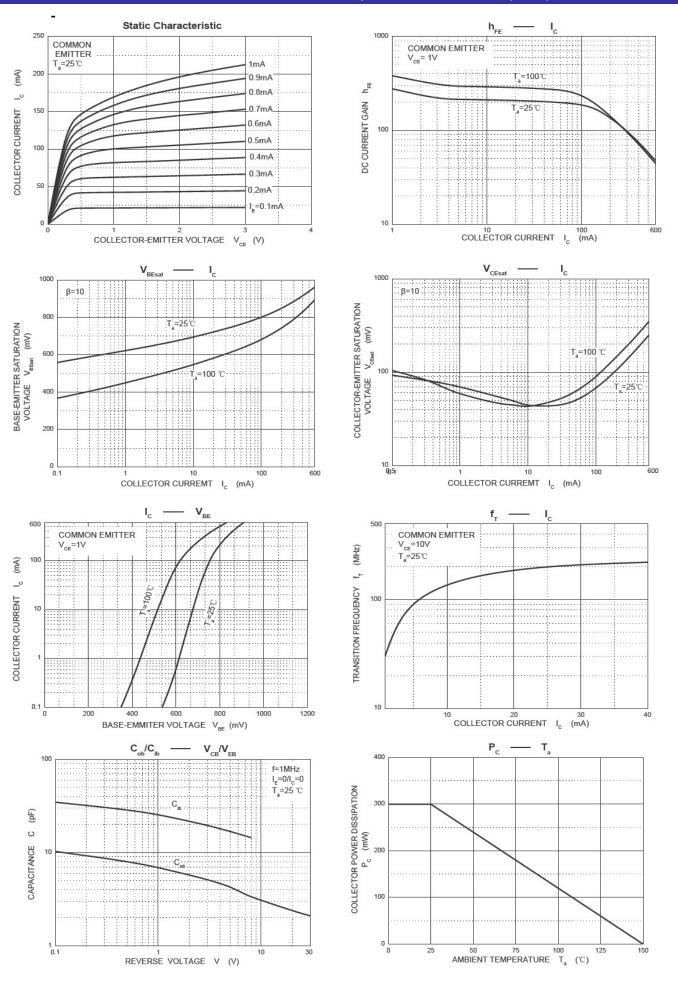
(Ratings at 25° C ambient temperature unless otherwise specified).

Parameter	Symbols	Test Condition	Limits		L Incié
			Min	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	60		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	40		V
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	6		V
Collector cut-off current	Ісво	VCB=50V, IE=0		100	nA
Collector cut-off current	ICEX	VCE=35V, VEB(off)=0.4V		100	nA
Emitter cut-off current	IEBO	VEB=5V, IC=0		100	nA
DC current gain	hFE(1)	VCE=1V, IC=0.1mA	20		
	hFE(2)	VCE=1V, IC=1mA	40		
	hFE(3)	VCE=1V, IC=10mA	80		
	hFE(4)	VCE=1V, IC=150mA	100	300	
	hFE(5)	VCE=1V, IC=500mA	40		
Collector-emitter saturation voltage	VCE(sat)	IC=150mA, IB=15mA		0.40	V
		IC=500mA, IB=50mA		0.75	V
Base -emitter saturation voltage	VBE(sat)	IC=150mA, IB=15mA		0.95	V
		IC=500mA, IB=50mA		1.20	V
Transition frequency	fT	VCE=10V, IC=20mA,f=100MHz	250		MHz
Delay time	td	VCC=30V, VBE(off)=-2V, IC=150mA, IB1=15mA		15	nS
Rise time	tr			20	nS
Storage time	ts	VCC=30V, IC=150mA, IB1=IB2=15mA		225	nS
Fall time	tf			60	nS



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