RHOS

SOT-23



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Features

- Complementary to S9012
- High Stability and High Reliability

MARKING: J3

Maximum Ratings

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

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	40	V
Collector-Emitter Voltage	Vceo	25	V
Emitter -Base Voltage	VEBO	5	V
Collector Current-Continuous	lc	500	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	Tj	150	$^{\circ}$ C
Storage Temperature	Tstg	-55-+150	$^{\circ}$ C
Thermal resistance From junction to ambient	Reja	416	°C/W

Electrical Characteristics

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

Doromotor	Symbolo	Test Condition	Limits		Unit
Parameter Syl		Symbols Test Condition	Min	Max	
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	25		V
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	5		V
Collector cut-off current	ICEO	VCE=20V, IB=0		100	nA
Collector cut-off current	Ісво	VCB=40V, IE=0		100	nA
Emitter cut-off current	IEBO	VEB=5V, IC=0		100	nA
DC current gain	hFE(1)	VCE=1V, IC=50mA	120	400	
	hFE(2)	VCE=1V, IC=500mA	40		
Collector-emitter saturation voltage	VCE(sat)	IC=500mA, IB=50mA		0.60	V
Base -emitter saturation voltage	VBE(sat)	IC=500mA, IB=50mA		1.20	V
Base -emitter voltage	V BE	VCB=1V, IC=10mA		0.70	V
Transition frequency	fT	VCE=6V, IC=20mA,f=30MHz	150		MHz
Collector output capacitance	Cob	VCB=6V, IE=0, f=1MHz		8	pF

CLASSIFICATION OF hfe(1)

RANK	L	Н	J
RANGE	120-200	200-350	300-400



