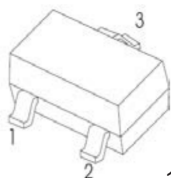
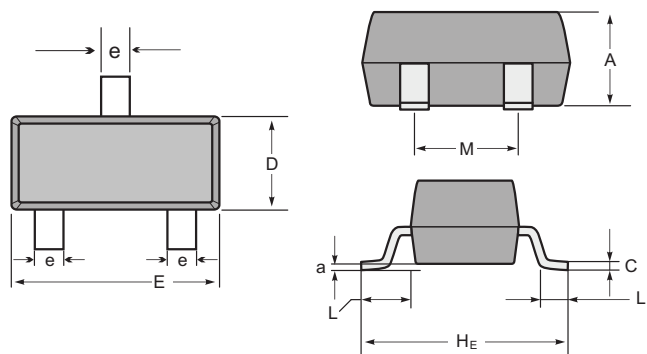


■ Features

- Power switching applications



1.BASE
2.EMITTER
3.COLLECTOR



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

■ Absolute Maximum Ratings Ta = 25°C

Symbol	Parameter	Value	Units
VCBO	Collector-Base Voltage	650	V
VCEO	Collector-Emitter Voltage	450	V
VEBO	Emitter-Base Voltage	9	V
IC	Collector Current -Continuous	0.2	A
PC	Collector Power Dissipation	0.5	W
Tj	Junction Temperature	150	°C
Tstg	Storage Temperature	-55-150	°C

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■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR)CBO	IC= 100μA, IE=0	650			V
Collector-emitter breakdown voltage	V(BR)CEO	IC= 1mA, IB=0	450			V
Emitter-base breakdown voltage	V(BR)EBO	IE=100μA, IC=0	9			V
Collector cut-off current	ICBO	VCB=600 V , IE=0			100	μ A
Collector cut-off current	ICEO	VCE=400V , IB=0			100	μ A
Emitter cut-off current	IEBO	VEB=9V , IC=0			100	μ A
DC current gain	hFE	VCE=10V, IC= 20mA	8		40	
DC current gain	hFE	VCE=5V, IC= 1mA	5			
Collector-emitter saturation voltage	VCE(sat)	IC=50mA, IB= 10mA			0.5	V
Base-emitter saturation voltage	VBE(sat)	IC=50mA, IB= 10mA			1.2	V

RATING AND CHARACTERISTIC CURVES (13001)

