



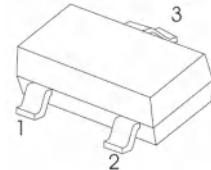
迈拓电子  
MAITUO ELECTRONIC

## FMMT458 High Voltage Transistor

### Features

400 Volt V<sub>CCEO</sub>

Marking 458



**SOT-23**

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	400	V
Collector-emitter voltage	V <sub>CCEO</sub>	400	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Peak collector current	I <sub>CM</sub>	1	A
Collector current	I <sub>C</sub>	225	mA
Base current	I <sub>B</sub>	200	mA
Power dissipation	P <sub>tot</sub>	500	mW
Operating and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150	°C



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Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	Ic=100μA	400			V
Collector-emitter breakdown voltage	V(BR)CEO	Ic=10mA	400			V
Emitter-base breakdown voltage	V(BR)EBO	Ie=100μA	5			V
Collector cutoff current	IcBO	Vcb=320V			100	nA
Collector Cut-Off Current	Ices	Vce=320V			100	nA
Emitter cut-off current	IeBO	Veb=4V			100	nA
Collector-emitter saturation voltage	Vce(sat)	Ic=20mA, Ib=2mA			0.2	V
		Ic=50mA, Ib=6mA			0.5	V
Base-emitter saturation voltage	Vbe(sat)	Ic=50mA, Ib=5mA			0.9	V
Base-emitter turn on voltage	Vbe(on)	Ic=50mA, Vce=10V			0.9	V
Static Forward Current Transfer Ratio	hFE	Ic=1mA, Vce=10V	100			
		Ic=50mA, Vce=10V*	100		300	
		Ic=100mA, Vce=10V*	15			
Transition frequency	fT	Ic=10mA, Vce=20V, f=20MHz	50			MHz
Output capacitance	Cobo	Vcb=20V, f=1MHz			5	pF
Switching times	ton	Ic=50mA, Vcc=100V		135		ns
	toff	Ib1=5mA, Ib2=-10mA		2260		ns

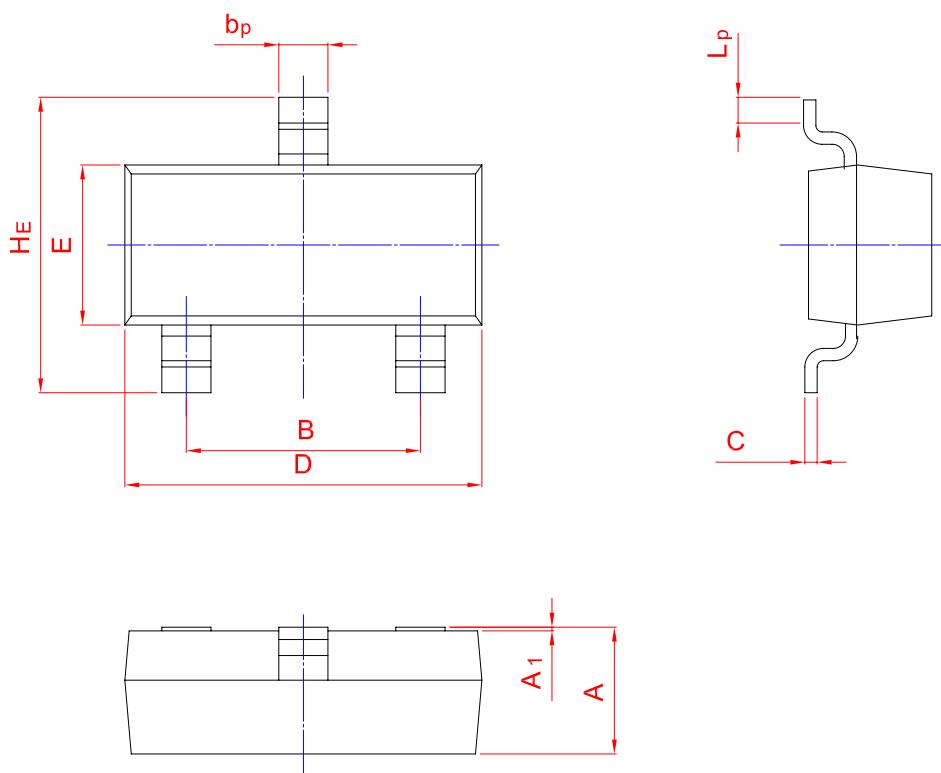


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## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b <sub>p</sub>	C	D	E	H <sub>E</sub>	A <sub>1</sub>	L <sub>p</sub>
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20