















**ESD** 

TVS

MOS

LDO

Diode

Sensor

DC-DC

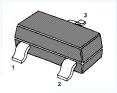
## **Product Specification**

Domestic Part Number	FMMT491
Overseas Part Number	FMMT491
▶ Equivalent Part Number	FMMT491





## TRANSISTOR (NPN)



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

**SOT-23** 

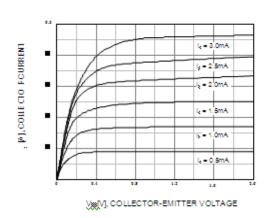
MAXIMUM RATINGS (T<sub>A</sub>=25℃ unless otherwise noted)

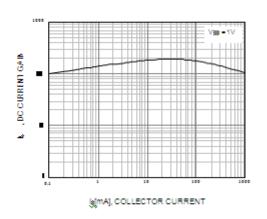
	<b>\</b> ''	,		
Symbol	Parameter	Value	Units	
$V_{CBO}$	Collector-Base Voltage	40	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	25	V	
$V_{EBO}$	Emitter-Base Voltage	5		
Ic	Collector Current -Continuous	1.8	Α	
Pc	Collector Power Dissipation	0.3	W	
Tj	Junction Temperature	150	$^{\circ}$	
T <sub>stq</sub>	Storage Temperature	-55-150	°C	

**ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)** 

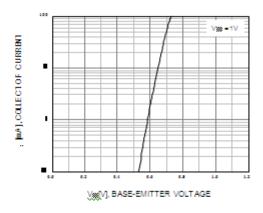
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 100μA, I <sub>E</sub> =0	40			V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = 0.1mA, I <sub>B</sub> =0	25			V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA, I <sub>C</sub> =0	5			V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =40V, I <sub>E</sub> =0			0.1	μA
Collector cut-off current	I <sub>CEO</sub>	V <sub>CB</sub> =20V, I <sub>E</sub> =0			0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5V, I <sub>C</sub> =0			0.1	μA
DC current gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =1V, I <sub>C</sub> = 100mA	200		350	
	h <sub>FE(2)</sub>	V <sub>CE</sub> =1V, I <sub>C</sub> = 800mA	40			
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =800mA, I <sub>B</sub> = 80mA			0.5	V
Base-emitter saturation voltage	n voltage V <sub>BE(sat)</sub> I <sub>C</sub> =800mA, I <sub>B</sub> =				1.2	V
Transition frequency	f⊤	V <sub>CE</sub> =10V, I <sub>C</sub> = 50mA f=30MHz	100			MHz

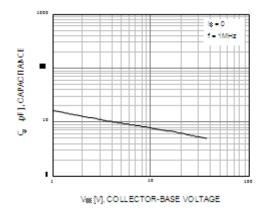


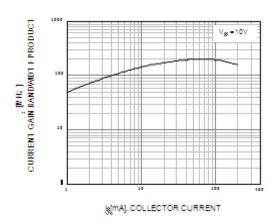










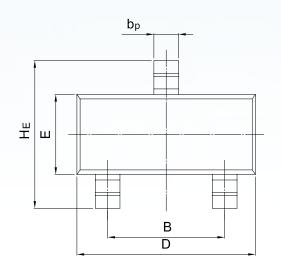


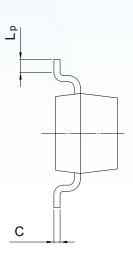


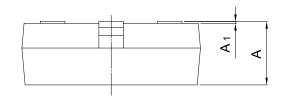
## **PACKAGE OUTLINE**

Plastic surface mounted package; 3 leads

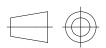
**SOT-23** 







UNIT	А	В	bр	С	D	Е	HE	<b>A</b> 1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20





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