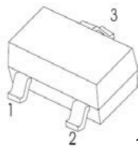
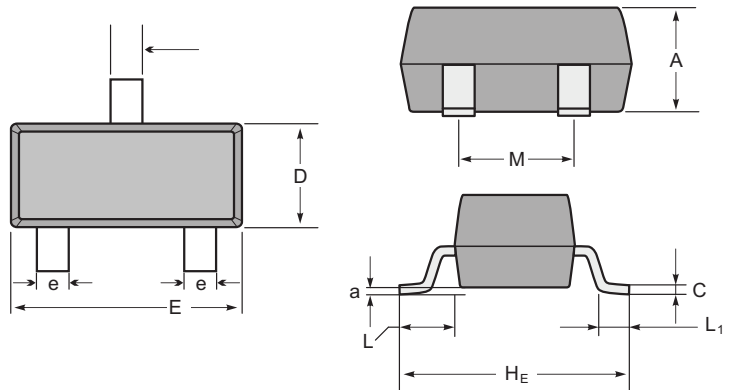


■ Features

- $V_{CE(sat)}$ maximum specification improvement
- Reverse blocking specification improvement



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

■ Marking

Marking	491
---------	-----

■ Absolute Maximum Ratings $T_a = 25^{\circ}\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	80	V
Collector - Emitter Voltage	V_{CEO}	60	
Emitter - Base Voltage	V_{EBO}	7	
Collector Current - Continuous	I_C	1	A
Collector Current - Pulse	I_{CP}	2	
Power Dissipation	P_D	500	mW
Linear derating factor		4	mW/ $^{\circ}\text{C}$
Junction to ambient	$R_{\theta JA}$	250	$^{\circ}\text{C}/\text{W}$
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

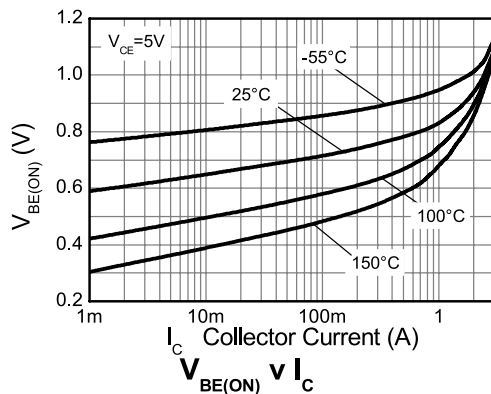
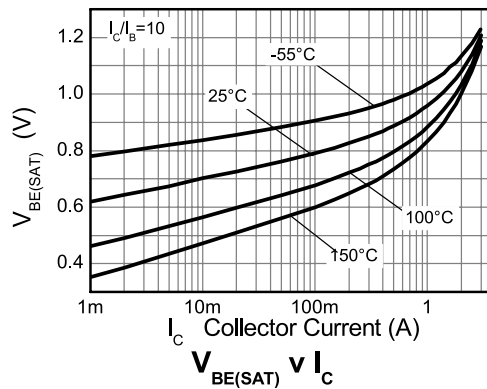
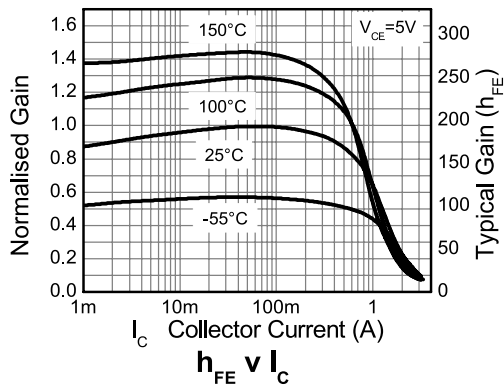
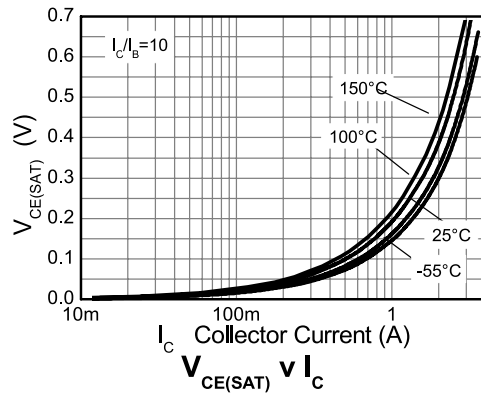
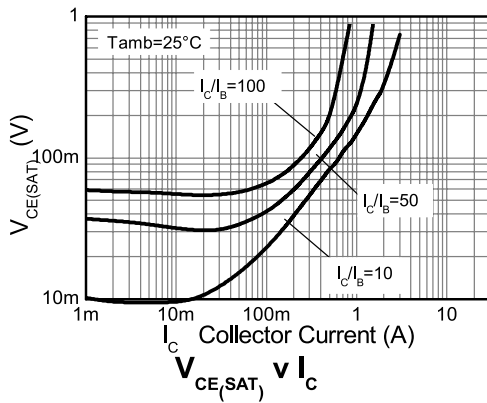
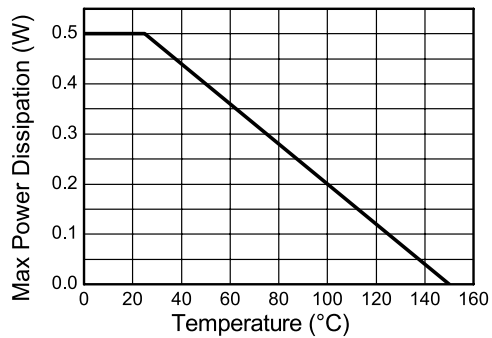
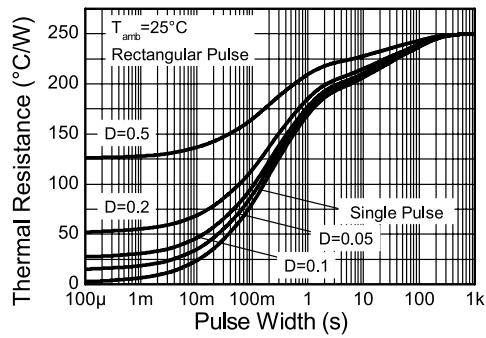
FMMT491

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _C = 100 μ A, I _E = 0	80			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = 10 mA, I _B = 0	60			
Emitter - base breakdown voltage	V _{EBO}	I _E = 100 μ A, I _C = 0	7			
Collector-base cut-off current	I _{CBO}	V _{CB} = 60 V , I _E = 0			100	nA
Collector- emitter cut-off current	I _{CES}	V _{CE} = 60 V , I _E = 0			100	
Emitter cut-off current	I _{EBO}	V _{EB} = 5.6V , I _C =0			100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500 mA, I _B =50mA (Note.1)			150	mV
		I _C =1 A, I _B =100mA (Note.1)			250	
Base - emitter saturation voltage	V _{BE(sat)}	I _C = 1 A, I _B = 100mA (Note.1)			1.1	V
Base-emitter turn-on voltage	V _{BE(on)}	V _{CE} = 5V, I _C = 1 A (Note.1)			1	
DC current gain	h _{FE(1)}	V _{CE} = 5V, I _C = 1mA	100			
	h _{FE(2)}	V _{CE} = 5V, I _C = 500mA	100		300	
	h _{FE(3)}	V _{CE} = 5V, I _C = 1 A	80			
	h _{FE(4)}	V _{CE} = 5V, I _C = 2 A	30			
Collector output capacitance	C _{ob}	V _{CB} = 10V, f=1MHz			10	pF
Transition frequency	f _T	V _{CE} = 10V, I _C =50mA, f=100 MHz	150			MHz

Note.1: Measured under pulsed conditions. Pulse width $\leq$ 300us; duty cycle $\leq$ 2%.

RATING AND CHARACTERISTIC CURVES (FMMT491)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT](#) *category:*

Click to view products by [GOODWORK](#) *manufacturer:*

Other Similar products are found below :

[MCH4017-TL-H](#) [MMBT-2369-TR](#) [NJVMJD148T4G](#) [NTE16](#) [NTE195A](#) [2N4401-A](#) [2N6728](#) [2SB1204S-TL-E](#) [2SC4731T-AY](#) [2SC5488A-TL-H](#) [FMC5AT148](#) [2N2369ADCSM](#) [2N2907A](#) [2N3904-NS](#) [2SB1324-TD-E](#) [2SC5231C8-TL-E](#) [CPH6501-TL-E](#) [BULD128DT4](#) [CPH6021-TL-H](#) [MCH6102-TL-E](#) [2N3879](#) [30A02MH-TL-E](#) [NTE13](#) [NTE282](#) [NTE350](#) [NTE81](#) [JANSR2N2907AUB](#) [CMLT3946EG TR](#) [SNSS40600CF8T1G](#) [CMLT3906EG TR](#) [GRP-DATA-JANS2N2907AUB](#) [GRP-DATA-JANS2N2222AUA](#) [MMDT3946FL3-7](#) [2N4240](#) [JANS2N3019](#) [MSB30KH-13](#) [2N2221AUB](#) [2SD1815T-TL-E](#) [Jantxv2N3810](#) [2N6678](#) [2N2907Ae4](#) [2N3963](#) [50C02MH-TL-E](#) [Jantx2N5415](#) [CPH3123-TL-E](#) [SMBT35200MT1G](#) [SMMJT350T1G](#) [NSVDTA113EM3T5G](#) [MBT3904DW1T1H](#) [CPH6102-TL-E](#)