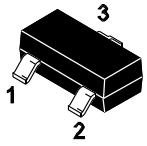
GOODWORK

FMMT493

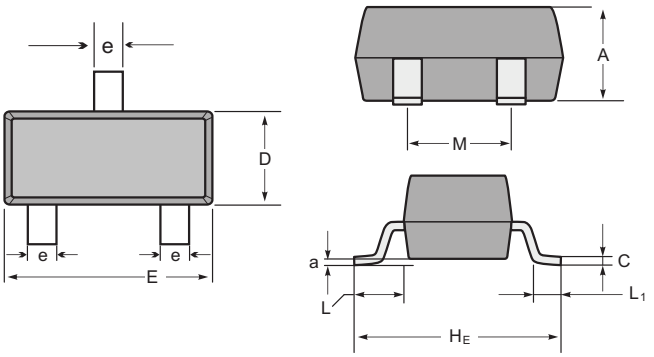
Features

- For Switching and AF Amplifier Applications.

SOT-23



1.Base 2.Emitter 3.Collector



SOT-23 mechanical data

UNIT		A	C	D	E	HE	e	M	L	L1	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

Ratings at 25℃ ambient temperature unless otherwise specified.

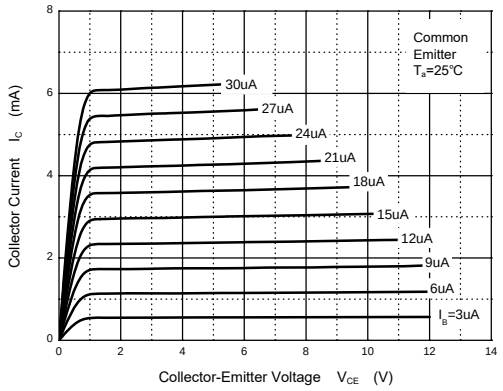
Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	120	V
Collector Emitter Voltage	V_{CEO}	100	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	1	A
Maximum Power Dissipation	P_D	250	mW
Junction Temperature	T_J	150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

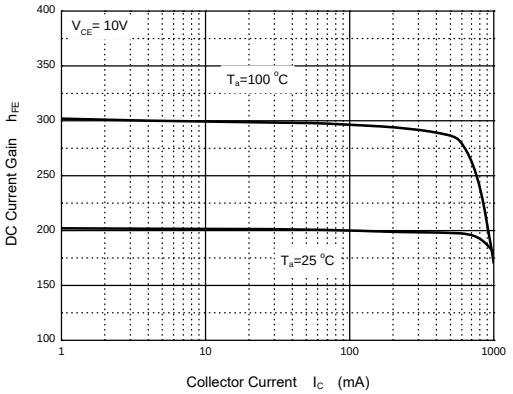
FMMT493

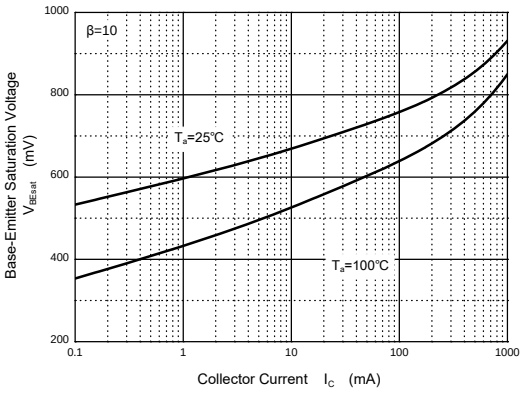
Electrical Characteristics (T_A=25℃)

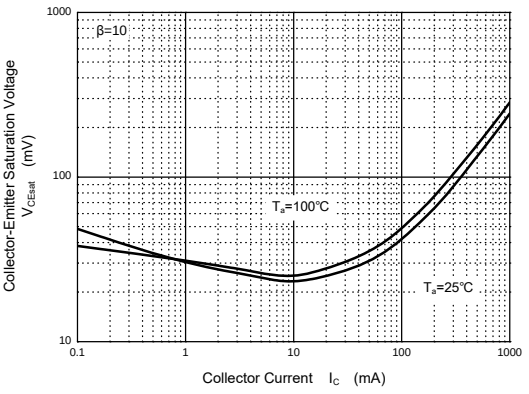
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain Note1 at V_{CE} = 10 V, I_C = 1 mA at V_{CE} = 10 V, I_C = 250 mA at V_{CE} = 10 V, I_C = 500 mA at V_{CE} = 10 V, I_C = 1 A	H_{FE}	 100 100 60 20	 -- 300 -- --	--
Collector Base Cutoff Current at V_{CB} = 100V	I_{CBO}	--	100	nA
Emitter Base Cutoff Current at V_{EB} = 4 V	I_{EBO}	--	100	nA
Collector Base Breakdown Voltage at I_C = 100 μA	$V_{(BR)CBO}$	120	--	V
Collector Emitter Breakdown Voltage at I_C = 1 mA	$V_{(BR)CEO}$	100	--	V
Emitter Base Breakdown Voltage at I_E = 100 μA	$V_{(BR)EBO}$	5	--	V
Collector Emitter Saturation Voltage at I_C = 500 mA, I_B = 50 mA at I_C = 1 A, I_B = 100 mA	$V_{CE(sat)}$	 --	 300 600	mV
Base Emitter Saturation Voltage at I_C = 1 A, I_B = 100 mA	$V_{BE(sat)}$	--	1.15	V
Base Emitter On Voltage at V_{CE} = 10 V, I_C = 1 A	$V_{BE(on)}$	--	1	V
Transition Frequency at V_{CE} = 10 V, I_C = 50 mA,f = 100 MHz	F_T	150	--	MHz
Output Capacitance at V_{CB} = 10 V, f = 1 MHz	C_{ob}	--	10	pF

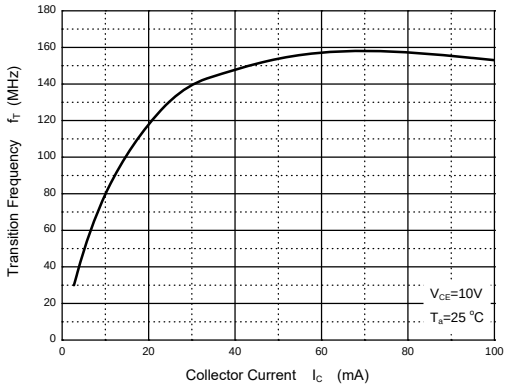
RATING AND CHARACTERISTIC CURVES (FMMT493)

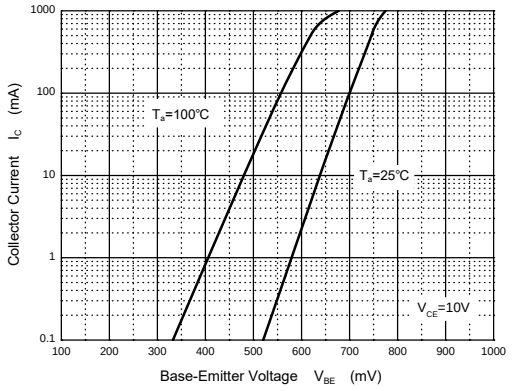


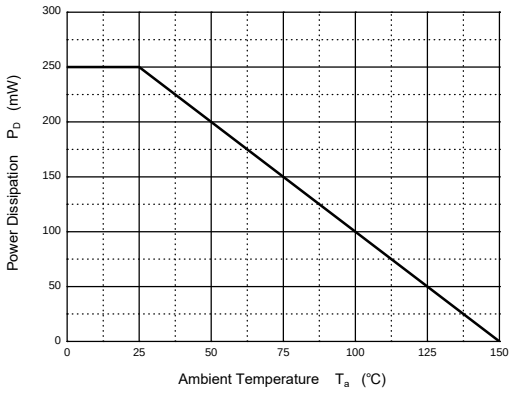












Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

GK:

MBRD3045 600R65 DSK36 SR560L 4N65F F7 MM1Z4V7B MM1Z6V2B SS10100 1N5399 1SMA4740A ES3.3D1HA03 K16 K34 MM5Z5V6 ES05D1MC10 ES12D1HA03 MB16F MBRD1060 PESD3V3L1BA SS1060 CDSOT23-SM712 MB210F ES1236D2HA23 MB14S MBRF30200CT SI2301S US5M BZT52C22 DSK110