

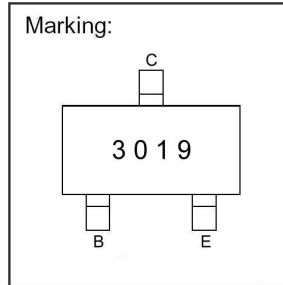
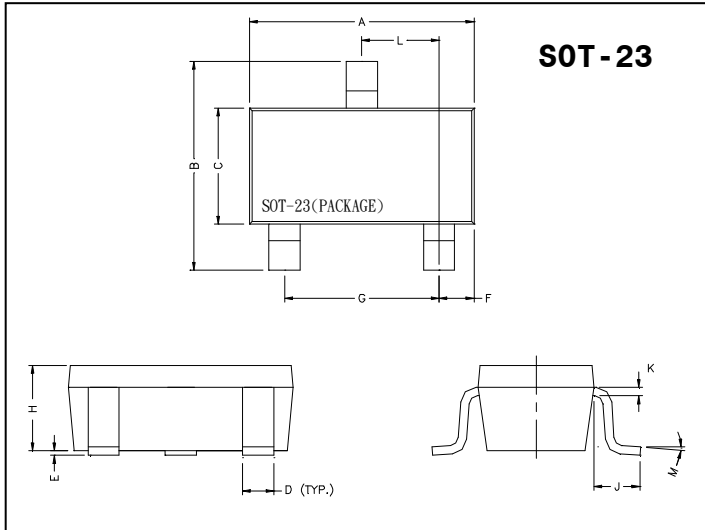
## GMBT3019

### NPN EPITAXIAL PLANAR TRANSISTOR

#### Description

The GMBT3019 is designed for general purpose amplifier applications and switching requiring collector currents 1A.

#### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55 ~ +150	°C
Collector to Base Voltage	VCBO	140	V
Collector to Emitter Voltage	VCEO	80	V
Emitter to Base Voltage	VEBO	7	V
Collector Current	IC	1	A
Total Power Dissipation	PD	350	mW

#### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	140	-	-	V	IC=100uA
BVCEO	80	-	-	V	IC=30mA
BVEBO	7	-	-	V	IE=100uA
ICBO	-	-	50	nA	VCB=90V
IEBO	-	-	50	nA	VEB=5V
VCE(sat)	-	-	0.2	V	IC=150mA, IB=15mA
VBE(sat)	-	-	1.1	V	IC=150mA, IB=15mA
hFE1	50	-	-		VCE=10V, IC=0.1mA
hFE2	90	-	-		VCE=10V, IC=10mA
hFE3	100	-	300		VCE=10V, IC=150mA
hFE4	50	-	-		VCE=10V, IC=500mA
hFE5	15	-	-		VCE=10V, IC=1000mA
fT	100	-	-	MHz	VCE=50mV, IC=50mA, f=100MHz
Cob	-	-	12	pF	VCE=10V, IE=0, f=1MHz

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