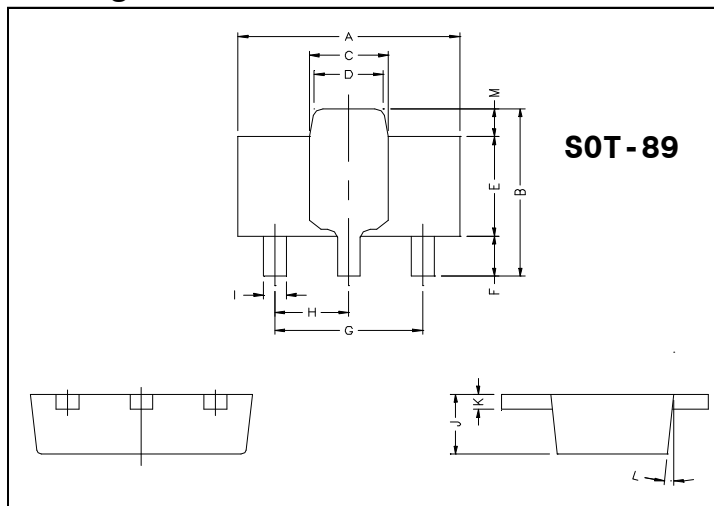
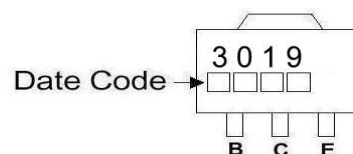


GM3019**NPN EPITAXIAL PLANAR TRANSISTOR****Description**

The GM3019 is designed for general purpose amplifier applications and switching requiring collector currents 1A.

Package Dimensions**Marking :**

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

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	1	W

Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	140	-	-	V	IC=100uA, IE=0
BVCEO	80	-	-	V	IC=30mA, IB=0
BVEBO	7	-	-	V	IE=100uA, IC=0
ICBO	-	-	50	nA	VCB=90V
IEBO	-	-	50	nA	VBE=5V
VCE(sat)	-	-	200	mV	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
Cob	-	-	12	pF	VCB=10V, IE=0V, f=1MHz
fT	100	-	-	MHz	VCE=50V, IC=50mA, f=100MHz

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