

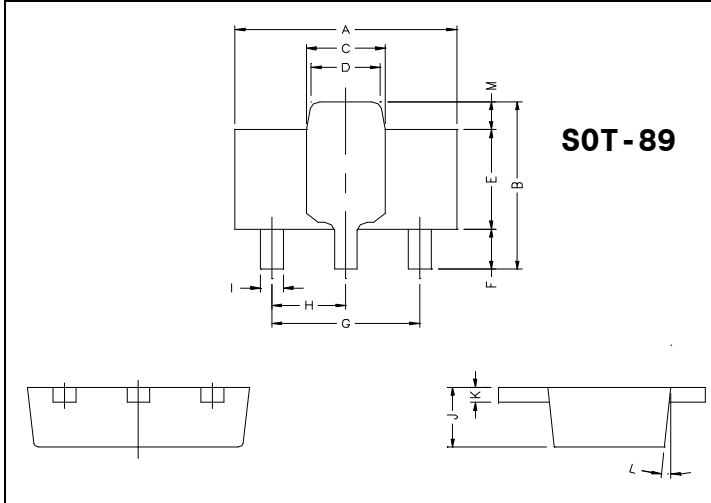
GM3019

NPN EPITAXIAL PLANAR TRANSISTOR

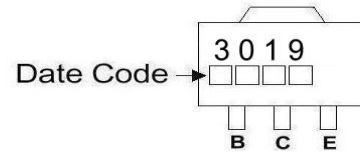
Description

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	T _j	+150	°C
Storage Temperature	T _{stg}	-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	I _C	1	A
Total Power Dissipation	PD	1	W

Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	140	-	-	V	I _C =100μA, I _E =0
BVCEO	80	-	-	V	I _C =30mA, I _B =0
BVEBO	7	-	-	V	I _E =100μA, I _C =0
ICBO	-	-	50	nA	V _{CB} =90V
IEBO	-	-	50	nA	V _{BE} =5V
VCE(sat)	-	-	200	mV	I _C =150mA, I _B =15mA
VBE(sat)	-	-	1.1	V	I _C =150mA, I _B =15mA
hfe1	50	-	-		V _{CE} =10V, I _C =0.1mA
hfe2	90	-	-		V _{CE} =10V, I _C =10mA
hfe3	100	-	300		V _{CE} =10V, I _C =150mA
hfe4	50	-	-		V _{CE} =10V, I _C =500mA
hfe5	15	-	-		V _{CE} =10V, I _C =1000mA
Cob	-	-	12	pF	V _{CB} =10V, I _E =0V, f=1MHz
fT	100	-	-	MHz	V _{CE} =50V, I _C =50mA, f=100MHz

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