

CM5160
SILICON
PNP RF TRANSISTOR



TO-39 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CM5160 is a silicon PNP RF transistor, mounted in a hermetically sealed package, designed for high frequency amplifier and non-saturated switching applications. This device is a replacement for the 2N5160.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL		UNITS
Collector-Base Voltage	V_{CB0}	60	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	4.0	V
Continuous Collector Current	I_C	0.4	A
Power Dissipation	P_D	1.0	W
Power Dissipation ($T_C=25^\circ\text{C}$)	P_D	5.0	W
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +200	$^\circ\text{C}$
Thermal Resistance	θ_{JA}	175	$^\circ\text{C}/\text{W}$
Thermal Resistance	θ_{JC}	35	$^\circ\text{C}/\text{W}$

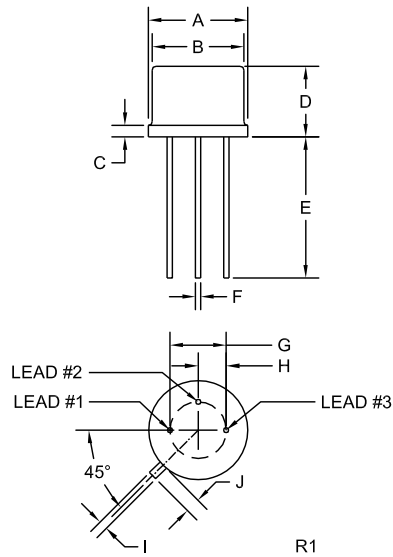
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{CB0}	$V_{CB}=28\text{V}$		1.0	μA
I_{CES}	$V_{CE}=60\text{V}$		100	μA
I_{CEO}	$V_{CE}=28\text{V}$		20	μA
BV_{CEO}	$I_C=5.0\text{mA}$	40		V
BV_{EBO}	$I_E=100\mu\text{A}$	4.0		V
h_{FE}	$V_{CE}=5.0\text{V}, I_C=50\text{mA}$	10		
f_T	$V_{CE}=15\text{V}, I_C=50\text{mA}, f=200\text{MHz}$	500		MHz
C_{cb}	$V_{CB}=28\text{V}, I_E=0, f=0.1$ to 1.0MHz		4.0	pF

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TO-39 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.335	0.370	8.51	9.40
B (DIA)	0.315	0.335	8.00	8.51
C	-	0.040	-	1.02
D	0.240	0.260	6.10	6.60
E	0.500	-	12.70	-
F (DIA)	0.016	0.021	0.41	0.53
G (DIA)	0.200		5.08	
H	0.100		2.54	
I	0.028	0.034	0.71	0.86
J	0.029	0.045	0.74	1.14

TO-39 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

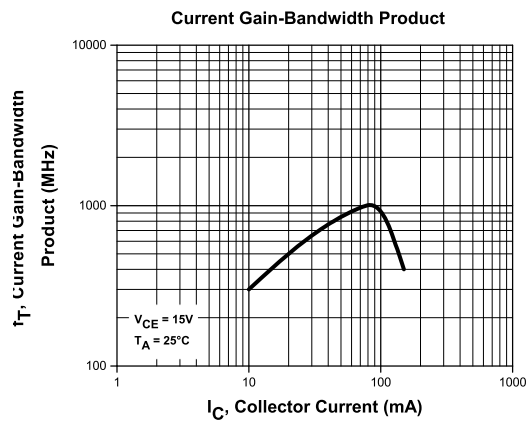
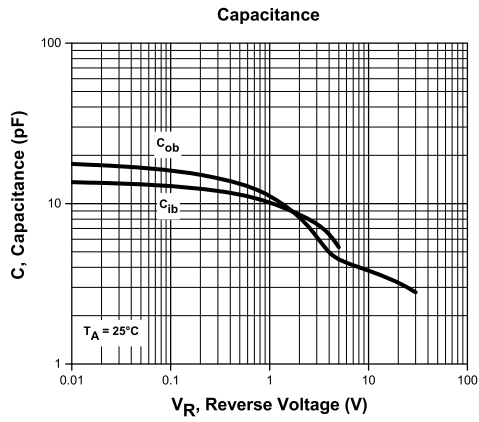
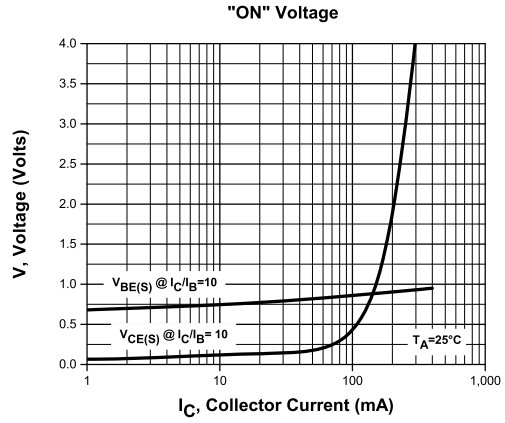
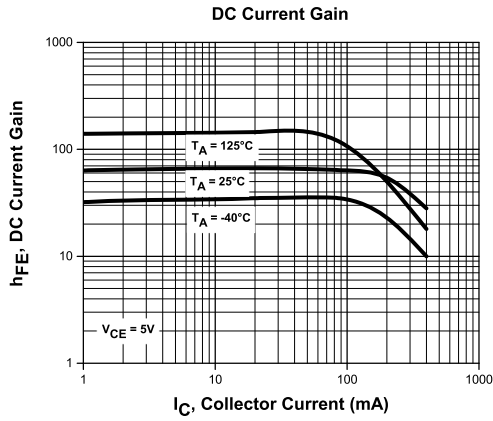
MARKING: FULL PART NUMBER

R2 (25-July 2016)

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TYPICAL ELECTRICAL CHARACTERISTICS

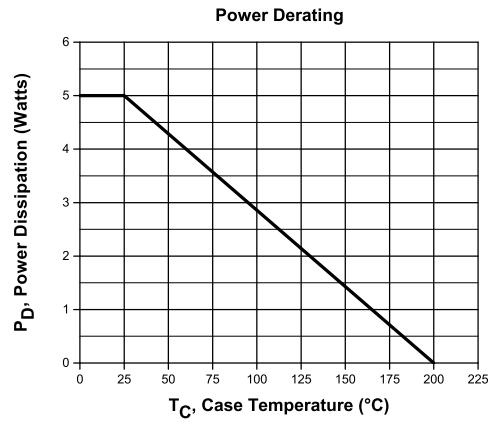
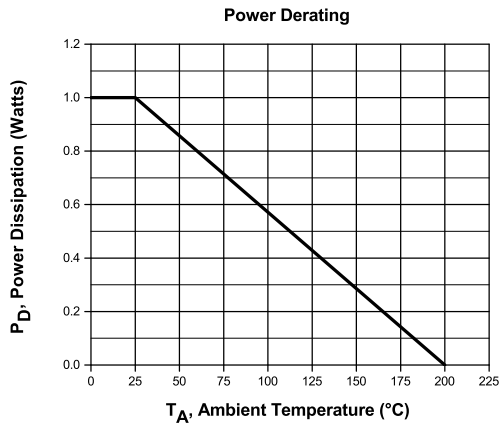


R2 (25-July 2016)

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TYPICAL ELECTRICAL CHARACTERISTICS



R2 (25-July 2016)

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