



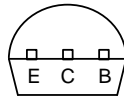
Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

2SC3279

Features

- High DC Current Gain and excellent h_{FE} Linearity
 $h_{FE(1)} = 140-600$ ($V_{CE}=1.0V$, $I_C=0.5A$)
 $h_{FE(2)} = 70$ (Min.), 200 (Typ.) ($V_{CE}=1.0V$, $I_C=2.0A$)

Pin Configuration
 Bottom View



NPN Silicon Epitaxial Transistors

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	10	V
V_{CES}	Collector-Emitter Voltage	30	V
V_{CBO}	Collector-Base Voltage	30	V
V_{EBO}	Emitter-Base Voltage	6.0	V
I_C	Collector Current - DC	2.0	A
	Pulsed ⁽¹⁾	5.0	A
I_B	Base Current	0.2	A
P_C	Collector power dissipation	750	mW
T_J	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
--------	-----------	-----	-----	-----	-------

OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Voltage ($I_C=10mA$, $I_B=0$)	10	---	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Voltage ($I_C=1.0mA$, $I_B=0$)	6.0	---	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=30Vdc$, $I_E=0$)	---	---	0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=6.0Vdc$, $I_C=0$)	---	---	0.1	μA

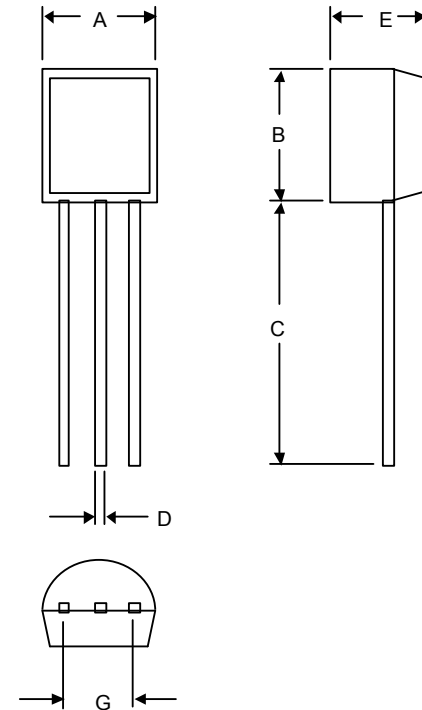
ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain ⁽²⁾ ($I_C=0.5A$, $V_{CE}=1.0Vdc$)	140	---	600	---
$h_{FE(2)}$	DC Current Gain ($I_C=2.0A$, $V_{CE}=1.0Vdc$)	70	200	---	---
$V_{CE(sat)}$	Collector Saturation Voltage ($I_C=2.0A$, $I_B=50mA$)	---	0.2	0.5	Vdc
V_{BE}	Base Saturation Voltage ($I_C=2.0A$, $V_{CE}=1.0Vdc$)	---	0.86	1.5	Vdc
f_T	Transition Frequency ($V_{CE}=1.0Vdc$, $I_C=0.5A$)	100	150	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10Vdc$, $I_E=0$, $f=1.0MHz$)	---	27	---	pF

(1) Pulse Width=10 ms (Max.), Duty Cycle=30% (Max.)

(2) $h_{FE(1)}$ Classification L: 140-240, M: 200-330, N: 300-450, P: 420-600

TO-92



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.46	4.70	
C	.500	---	12.7	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	

2SC3279

