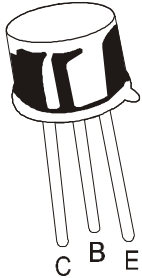


PNP SILICON PLANAR EPITAXIAL TRANSISTOR

CSA537



TO-39
Metal Can Package

MEDIUM SPEED SWITCHING AND LINEAR AMPLIFIER APPLICATIONS

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

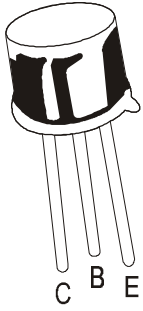
DESCRIPTION	SYMBOL	VALUE	UNITS
Collector Emitter Voltage	V_{CEO}	50	V
Collector Base Voltage	V_{CBO}	60	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current Continuous	I_C	0.7	A
Emitter Current Continuous	I_E	0.7	A
Power Dissipation	P_D	0.75	W
Junction Temperature	T_j	200	°C
Storage Temperature	T_{stg}	-55 To +200	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNITS
Collector Base Breakdown Voltage	B_{VCBO}	$I_C=10\mu A, I_E=0$	>60	V
Collector Emitter Breakdown Voltage	B_{VCEO}	$I_C=5mA, I_E=0$	>50	V
Emitter Base Breakdown Voltage	BV_{EBO}	$I_E=10mA, I_C=0$	>5	V
Collector Cutoff Current	I_{CBO}	$V_{CB}=30V, I_E=0$	<50	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=3V, I_C=0$	<50	nA
Collector Emitter(Sat) Voltage	$V_{CE(Sat)}$	$I_C=150mA, I_B=15mA$	<0.5	V
Base Emitter (Sat) Voltage	$V_{BE(Sat)}$	$I_C=150mA, I_B=15mA$	<1.1	V
DC Current Gain	$h_{FE(1)}$	$I_C=50mA, V_{CE}=4V$	50-160	
		$I_C=400mA, V_{CE}=4V$	>20	
Small Signal Current Gain	$ h_{fe} $	$I_C=20mA, V_{CE}=10V,$	>1.0	V
		$f=100MHz$		V
Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	<35	pF

NPN HIGH VOLTAGE SILICON TRANSISTORS

CSA537



**TO-39
Metal Can Package**

ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNITS
SWITCHING CHARACTERISTICS				
Turn on Time	t_{on}	$V_{CC}=6.5V, I_C=150mA,$ $I_{B1}=15mA, I_{B2}=0$	<50	ns
Turn off Time	t_{off}	$V_{CC}=6.5V, I_C=150mA,$ $I_{B1}=I_{B2}=15mA$	<350	ns
Storage Time	t_{stg}	$V_{CC}=6.5V, I_C=150mA,$ $I_{B1}=I_{B2}=15mA$	<300	ns

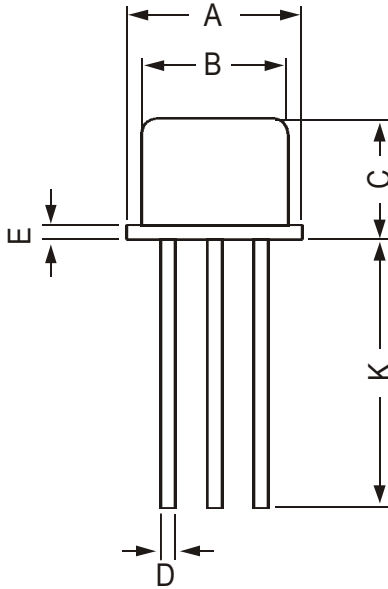
CLASSIFICATION

$h_{FE(1)}$

B
500-100

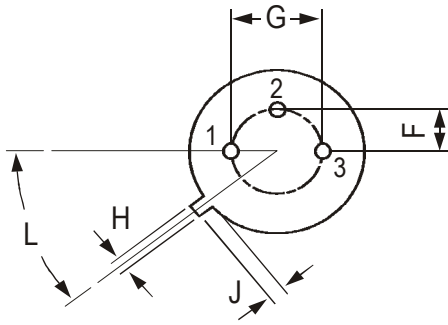
C
80-160

TO-39 Metal Can Package



All dimensions are in mm

DIM	MIN	MAX
A	8.50	9.39
B	7.74	8.50
C	6.09	6.60
D	0.40	0.53
E	—	0.88
F	2.41	2.66
G	4.82	5.33
H	0.71	0.86
J	0.73	1.02
K	12.70	—
L	42 DEG	48 DEG



PIN CONFIGURATION
1. EMITTER
2. BASE
3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-39	500 pcs/polybag	540 gm/500 pcs	3" x 7.5" x 7.5"	20K	17" x 15" x 13.5"	32K	40 kgs

Disclaimer

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