

MPSA75
MPSA76
MPSA77

**SILICON
PNP DARLINGTON TRANSISTORS**



TO-92 CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSA75 series devices are silicon PNP Darlington transistors, manufactured by the epitaxial planar process, designed for applications requiring extremely high gain.

MARKING: FULL PART NUMBER

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

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL	MPSA75	MPSA76	MPSA77	UNITS
V_{CBO}	40	50	60	V
V_{CES}	40	50	60	V
V_{EBO}		10		V
I_C		500		mA
P_D		625		mW
T_J, T_{stg}		-65 to +150		$^\circ\text{C}$
Θ_{JA}		200		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MPSA75		MPSA76		MPSA77		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I_{CBO}	$V_{CB}=30\text{V}$	-	100	-	-	-	-	nA
I_{CBO}	$V_{CB}=40\text{V}$	-	-	-	100	-	-	nA
I_{CBO}	$V_{CB}=50\text{V}$	-	-	-	-	-	100	nA
I_{CES}	$V_{CE}=30\text{V}$	-	500	-	-	-	-	nA
I_{CES}	$V_{CB}=40\text{V}$	-	-	-	500	-	-	nA
I_{CES}	$V_{CB}=50\text{V}$	-	-	-	-	-	500	nA
I_{EBO}	$V_{EB}=10\text{V}$	-	100	-	100	-	100	nA
BV_{CBO}	$I_C=100\mu\text{A}$	40	-	50	-	60	-	V
BV_{CES}	$I_C=100\mu\text{A}$	40	-	50	-	60	-	V
$V_{CE(SAT)}$	$I_C=100\text{mA}, I_B=0.1\text{mA}$	-	1.5	-	1.5	-	1.5	V
$V_{BE(ON)}$	$V_{CE}=5.0\text{V}, I_B=100\text{mA}$	-	2.0	-	2.0	-	2.0	V
h_{FE}	$V_{CE}=5.0\text{V}, I_C=10\text{mA}$	10K	-	10K	-	10K	-	
h_{FE}	$V_{CE}=5.0\text{V}, I_C=100\text{mA}$	10K	-	10K	-	10K	-	
f_T	$V_{CE}=5.0\text{V}, I_C=10\text{mA}$	125	-	125	-	125	-	MHz

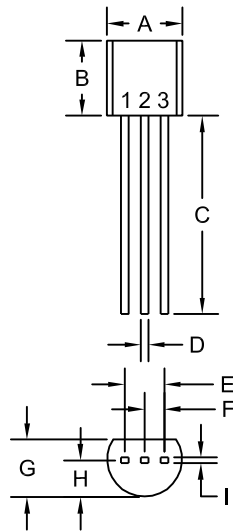
R1 (18-March 2014)

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TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

LEAD CODE:

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

MARKING:
FULL PART NUMBER

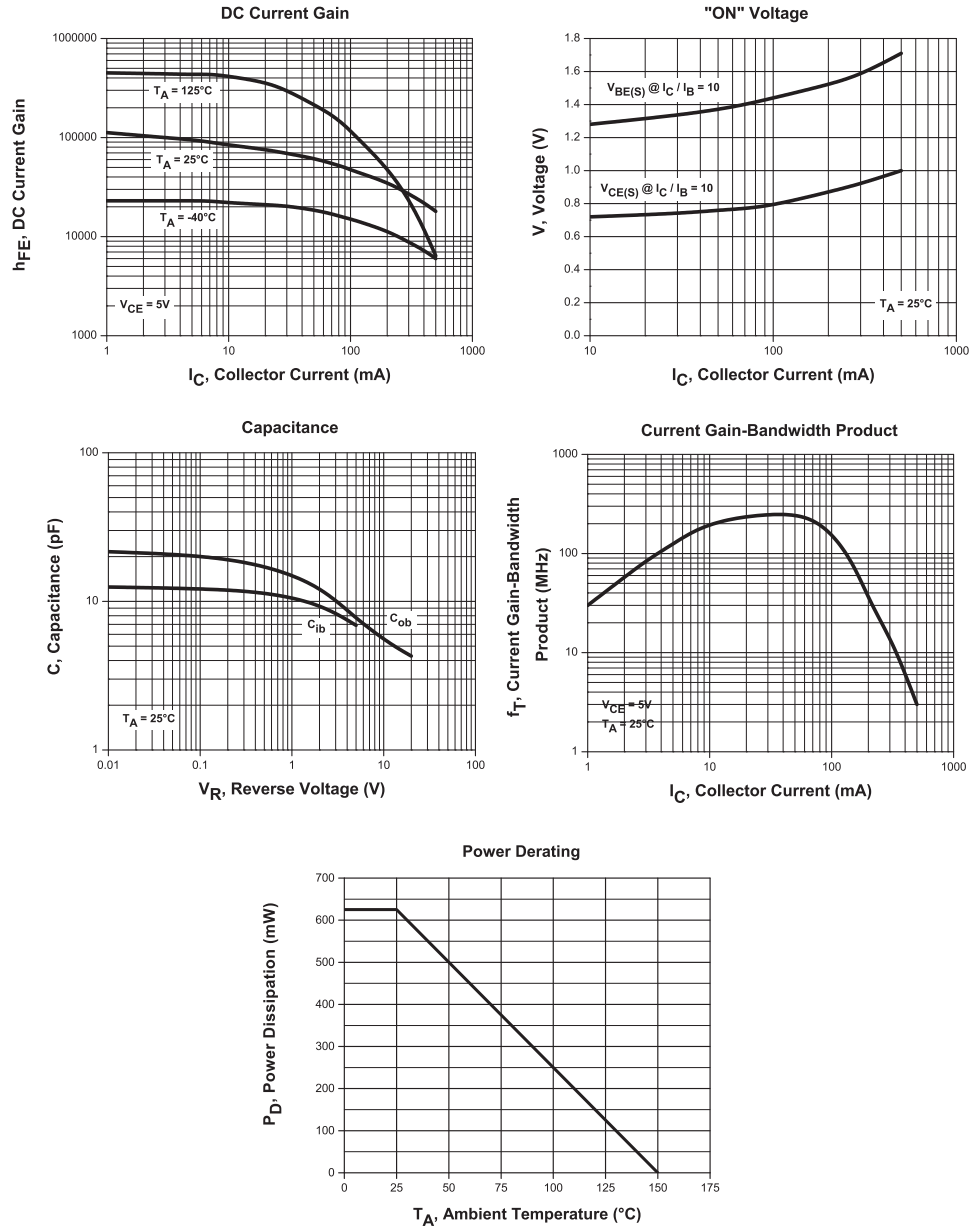
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TYPICAL ELECTRICAL CHARACTERISTICS



R1 (18-March 2014)

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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