MPSA28 MPSA29

SILICON NPN DARLINGTON TRANSISTORS

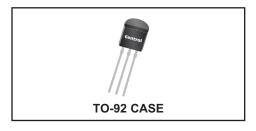


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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSA28 and MPSA29 are silicon NPN Darlington transistors manufactured by the epitaxial planar process and designed for applications requiring extremely high gain.

MARKING: FULL PART NUMBER



 C_{ob}

MAXIMUM Collector-Bas	RATINGS: (T _A =25°C)	SYMBOL		SA28 <u>M</u>	IPSA29 100	UNITS V
	ě	V _{СВО}		80	100	V
Collector-Emitter Voltage		VCES			100	•
Emitter-Base Voltage		VEBO		12		V
Continuous Collector Current		ΙC		500		mA
Power Dissip	ation	P_{D}		625		mW
Operating and Storage Junction Temperature		T _J , T _{stg} -		-65 to +15	-65 to +150	
Thermal Resistance		$\Theta_{\sf JA}$		200		°C/W
Thermal Resistance		$\Theta^{\sf JC}$		83.3		°C/W
ELECTRICA SYMBOL	L CHARACTERISTICS: (T _A =25°C) TEST CONDITIONS	MPS MIN	A28 MAX	MPS MIN	6 <u>A29</u> MAX	UNITS
ICBO	V _{CB} =60V	IVIIIN -	100	- IVIIIN	-	nA
I _{CBO}	V _{CB} =80V	-	-	-	100	nA
ICES	V _{CE} =60V	-	500	-	-	nA
ICES	V _{CE} =80V	-	-	-	500	nA
I _{EBO}	V _{EB} =10V	-	100	-	100	nA
BV _{CBO}	I _C =100μA	80	-	100	-	V
BVCES	I _C =100μA	80	-	100	-	V
BV_{EBO}	I _E =10μA	12	-	12	-	V
V _{CE} (SAT)	I _C =10mA, I _B =10μA	-	1.2	-	1.2	V
VCE(SAT)	I _C =100mA, I _B =100μA	-	1.5	-	1.5	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =100mA	-	2.0	-	2.0	V
h _{FE}	V_{CE} =5.0V, I_{C} =10mA	10,000	-	10,000	-	
h _{FE}	V _{CE} =5.0V, I _C =100mA	10,000	-	10,000	-	
f _T	V _{CE} =5.0V, I _C =10mA, f=100MHz	125	-	125	-	MHz

V_{CB}=10V, I_E=0, f=1.0MHz - 8.0 - 8.0

pF

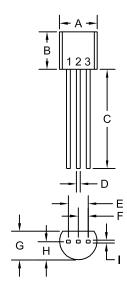
MPSA28 MPSA29

SILICON NPN DARLINGTON TRANSISTORS



TO-92 CASE - MECHANICAL OUTLINE

R1



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

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base 3) Collector

MARKING:

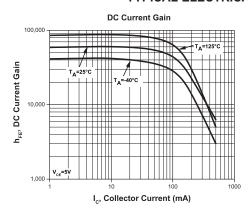
FULL PART NUMBER

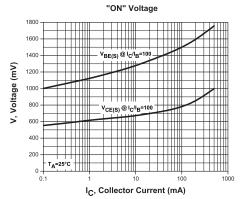
MPSA28 MPSA29

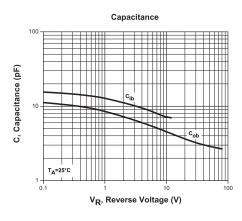


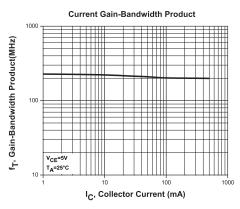


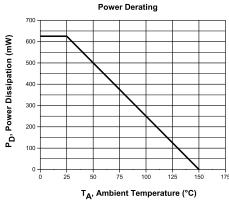
TYPICAL ELECTRICAL CHARACTERISTICS











R0 (28-May 2013)



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